

THE PLOUGH

THE LOOM AND THE ANVIL.

FARMER AND MECHANIC.

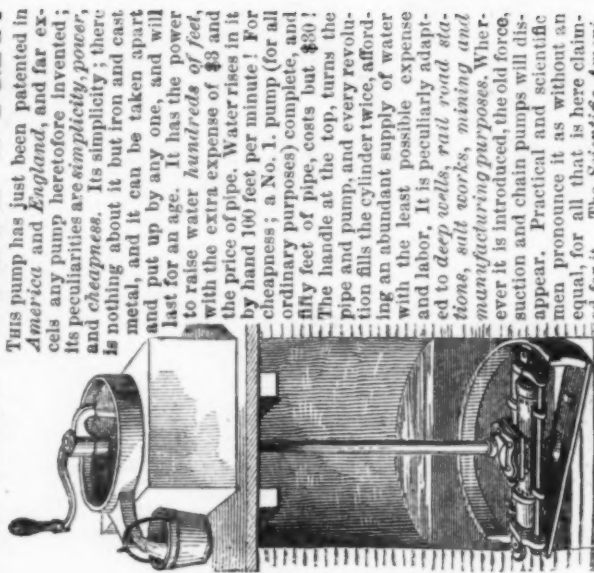
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The Plough, the Loom, and the Anvil,

Is devoted to Scientific and Practical Agriculture, Manufactures, Mechanics, with Designs of Farm Buildings, Cottages, &c.; the best Cultivation of Fruits and Plants; the proper care of Cattle, Horses, Sheep, Hogs, Poultry, Bees, &c. It will point out, also, the true policy to be pursued for the encouragement of American industry, without which there can be no sure foundation for American Independence. It is issued MONTHLY, each number containing SIXTY-FOUR pages of reading matter, with frequent Illustrations, Engravings, &c., at the following

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PAYABLE IN ADVANCE.

All letters should be post paid, and addressed to M. P. PARISH, Editor, or to *The Plough, the Loom, and the Anvil*, No. 19 Nassau Bank Building, New-York.

TO ALL WHOM IT CONCERNS.

THIS number closes the 8th volume of our journal. We look back upon the past with pleasant recollections of the candor and even the kindness of our numerous readers and correspondents. Should we cease to speak to them this day, we should have occasion to remember them with unalloyed gratification. They are scattered over every State in the Union.

But, we would now treat more especially of the future. We do not anticipate any such interruption in our monthly visit to our valued friends, and we trust *they* do not purpose to terminate the connection between us. Our endeavor now is to render our labors more effective, and more acceptable both to them and to ourself. Every thing in the origin, and in the earlier as well as the later history of this journal, urges us to raise its value higher and higher, not only to the agriculturist, but to every department of productive labor.

It is AMERICAN INDUSTRY, in its broadest sense, that we would represent; the interests of which we would promote. We would foster and excite a *national sentiment* on this subject. The greatest good of all, is what we seek; and entire and complete independence of any foreign policy and foreign market, our great aim. This must be secured by advancing and promoting each separate department of honest labor.

In accomplishing this, we need, 1st, More strength in the editorial department; 2d, A still more extensive list of correspondents, and occasional contributors, scattered over the whole territory of the United States; and 3d, A STRICTLY ADVANCE PAYMENT FROM ALL OUR SUBSCRIBERS.

We do not intend to delay these improvements in our office arrangements, till we have already secured the benefit of a movement elsewhere; but, RELYING upon such increase of our facilities, we shall go forward, and we offer the following inducements to all to help us in making these improvements efficient and permanent:

The tariff of prices above given, and always familiar to our readers, shows that some receive the work at a less price than others. An individual subscription is \$3 00; two copies, or two years paid for at once, \$5.00, or \$2.50 each; while those who are in a club of five persons pay only \$2.00. We wish to equalize this, and offer to all who pay \$3.00 or \$2.50, and who send us another name, with \$4 00, for the coming year, a credit to both in full for one year, and to continue at this rate (\$2.00) so long as either pays this sum in advance or within sixty days of the commencement of the subscription year.

Any subscriber, at the club rate of \$2.00, who will send us another subscriber at the same rate, shall receive, postage paid, a copy of any book he may order which is sold at retail, in this city, for fifty cents.

Who will send us the the first remittance?

M. P. PARISH,

Editor of *The Plough, the Loom, and the Anvil*

The Plough, the Loom, and the Anvil.

VOL. VIII.

JUNE, 1856.

No. 12.

WOOL AND WOOLENS.

WE invite the attention of the public to the present and prospective condition of our woolen manufactures, and the multitude of interests that are clustered around that great center. But, like one who enters a strange city, in which inviting avenues, extending in diverse directions, tempt him to wander, so we scarcely know what view we ought to present to our readers.

One of the great evils of sectional or party divisions and the ascendancy of one or other clique or clan inevitably produces, is the essential change in the meaning of words. "The country is prosperous" is made to mean anything or nothing, according to circumstances. In New-York, it means that importers are doing an extensive business, that their country customers yet hold out pretty well, and that the stocks held or represented here are rising, and whether by fraudulent representations or otherwise is of no concern. The readers of our morning papers run over the "money article," and if that speaks favorably, their anxieties are all quieted and they have no fear of anything. We found it almost impossible, recently, to convince a friend of intelligence and of extensive means who has done a large and profitable business, that the country was not in a very flourishing condition, financially, although he admitted that his own business was not producing any profit to him or to any body. He referred us to the "money article" of a sheet of this city as evidence, even against his own personal experience, and that experience intimately allied to the commerce of the country.

But how is this? What is the kind of testimony that is reliable on this point? Let us look at it. Opening our volume of post-offices and post routes, we find a very large map of the United States. The various mail routes are designated by certain lines which traverse its area in all directions. At the first glance we also notice that at short intervals small circles are drawn, which are sometimes very near each other, and not unfrequently are intersected by each other. Sometimes they are more remote. These circles are so numerous as to give a distinct character to the appearance of the sheet. No one can overlook it.

Now, suppose that each of these circles represents the existence of a raging and fatal epidemic, can that territory be called healthy? Suppose it should be understood that within those mystic circles the property of the people had been, all at once, utterly consumed by desolating fires, are these no evidence of general disaster?

If, within each one of those circles, it had been discovered that stout resistance was made, boldly and openly and defiantly, to the government of the country, would any man say, in his senses, that the civil institutions of this nation were in a very peaceful and prosperous condition?

These circles are situated, without exception, almost, among the most active, enterprising, and hopeful sections of the country. Whatever is represented, therefore, within and by those enclosed areas, deserves serious attention. Their prosperity, or their distress, must, in some form, be very sensibly felt through the country. As to the time when the public will appreciate the truth thus set forth, there may be some uncertainty. But it cannot be always ignored or forgotten.

Now, these circles may well represent the manufactures of wool and woolen goods in this country. Do our readers know, will they believe, that scarcely one, if one, of all the woolen mills in this country is, or for months has been, in operation? Do they know that this capital is idle, that the costly buildings erected for such use are going to decay, their operatives without employment (*or gone to Kansas to grow their own food, or avenge themselves*)—all the thousands of various trades dependent upon these establishments for their markets, deprived of the power to sell their own products? Politicians sometimes find that the evils they selfishly produce in the community come home to roost within their own private enclosures.

These manufactories are scattered over twenty-four different States of the Union. In number they exceed fifteen hundred. Nearly forty thousand operatives are thus thrown out of employment, and scarcely less than eighty or a hundred thousand more of parents, women, children, &c., by the same means, are deprived of the sources whence they have solely derived their support.

All this while foreigners are establishing themselves in our counting-houses, importing foreign goods, and sometimes, under fraudulent invoices, cheating THE PEOPLE out of a large portion of the trifling duties the law demands from them, while in our cities avenues are built up with gorgeous palaces, and princely fortunes are amassed—all for love of liberty and free trade! and the people love to have it so!! and our hardware importers, who would control and pervert all the business of the country for their own benefit, more fortunate than Judas of old, find among those born and reared under our own institutions, and with whom they may be delighted to associate, both sympathizing hearts and helping hands.

But we must stay our zeal. We have as little personal interest in this matter as most of our readers, and if the people assent to this suicidal course, the results should be met submissively.

We must content ourself now by giving to our readers the following able and lucid presentation of this subject, by one of the best minds in the country, and one who has been for a very long period personally connected with it, and is practically familiar with the facts and the workings of the policy which has prevailed.

Mr. Jarvis, while Consul in Spain, was personally concerned in the first introduction of Merino sheep into this country, has been from that time to the present among the most extensive owners of these sheep, and is abundantly able to speak, as with authority, in relation to it. Would that he, and such as he, had the control of this interest, shaping its policy in accordance with the demands of honest truth and the public weal. This letter of Mr. Jarvis first appeared in one of our city papers. Ed. P. L. & A.

WOOLS AND WOOLENS.

DEAR SIR:—I was happy to receive a letter from you upon a subject which I have had so much at heart for over fifty years.

After being in Portugal, Spain, and in England, between the years 1798 and 1802, that which most astonished me in the two first countries was the great neglect of agricultural, mechanical, manufacturing, and commercial industry, and the general poverty which prevailed the mass of the people in a country possessing an excellent soil and one of the finest climates in the world; whereas, on going to England, I found everybody busy, the land highly cultivated, all branches of mechanical and manufacturing industry in the greatest activity—that nation then possessing the largest commercial marine in the world, and her ports crowded with shipping.

When I compared this state of prosperity and affluence with the state in which English history represented her to be five hundred years before, without manufactures and without commerce, dependent on the Brabant shipping to carry her surplus wool and other productions to Flanders, and sending it back to England in cloths, to their great benefit and impoverishment of England, the contrast was so great that I could hardly give credit to her own historians, as to the truth of what they asserted. But, an examination into her commercial history satisfied me of the fact. England was then as dependent on Flanders for the few manufacturing comforts which she obtained, as the Brazils and Spanish South America have been upon their mother countries, for the European goods which they received through those respective channels. But the teachings of history appear to have produced very little effect upon us. We are now voluntarily pursuing the same policy toward England, which five hundred years ago she pursued toward the Flemings, and with the same result. With our variety of climate and virgin soil, by this injudicious policy, we have got into debt to Great Britain to the amount of some two hundred and fifty or three hundred millions of dollars, with outgoings against us of fifteen to eighteen millions of dollars a year in the shape of interest. By way of economizing our resources, so as to enable us to pay off the principal—for pay-day must come—we have recently more than doubled the imports of those woollen manufactures which we could have made at home. A new way to pay old debts!

In relation to wool, I have from the outset been opposed to any, or at least a heavy duty on this article; but I am compelled to acknowledge that the most serious opposition I have met with on this point has been from my brother wool-growers. They seem to think that a low or no duty will cause this country to be flooded with foreign wool.

With the low price of our lands and the moderate expense of sheep husbandry compared with any other agricultural pursuit, I have never felt any fear that the American wool-grower would be injured by importation. My doubt of success originated in the want of due protection for our manufacturing industry. Manufacturing labor in England did not and does not cost half what it does in the United States; their machinery of every kind has been brought to the greatest perfection; their skill in using it has also been perfected, and the average interest of their capital is not more than half ours, and hence the danger to our success must originate in this source. Once place our manufacturers in a condition not to be prostrated by the competition of those of England, and they would afford a ready and remunerating market to the wool-growers. Now it must be obvious in this immense, extended country, more than half of it adapted to the wool-growing business, where land can be bought for less than the price of the annual rental in England, and most of other countries in Europe, we cannot be in any serious danger from the competition of foreign wools. It might as well be urged that we should lay a duty on foreign raw cotton, for fear of competing with

that of our own growth. To lay a high duty on wool, and neglect to lay a duty on foreign manufactures, which would protect our own from rivalry, would be literally realizing the fable of killing the goose which laid us the golden eggs. Everybody knows, who is acquainted with the subject, that the labor of the operatives, the cost of the dye-stuffs, the expense of the wear and tear of machinery and buildings, and the interest on capital, constitute two-thirds of the value of most woolen fabrics; then to lay a higher duty on the raw material than we do on the manufactured article would be directly legislating for the good of the foreigner to our own disadvantage. It might do very well for the legislation of a Colonial Parliament; but for an independent nation which means to emancipate herself from the leading-strings of her former mother country, it is suicidal.

There certainly has been a great deal more stress laid on this subject of foreign wool than it was entitled to. Had Congress favored us with a steady legislation calculated to promote manufacturing industry since 1816—when the double duties ended by the limitation of the act—there would not at this time be any question upon the propriety or impropriety of a duty on foreign wool; for we ourselves should have raised amply enough for the supply of our own consumption. We have done it in cotton and everything else we have turned our attention to, and we should have done it in sheep—whose fleece affords us our most comfortable clothing, and his carcase our most wholesome food—had proper encouragement been afforded to this useful branch of industry. From the variety of views which have been entertained in Congress in regard to a protective duty, it is pretty certain the friends of manufacturing industry, cannot obtain what they want, and, for one, what I say they ought to have. Mr. Guthrie appears to be a man of sense, and he has probably recommended the only course of legislation which can now be carried into effect for the benefit of both manufacturers and wool-growers. As a general rule, when manufacturing industry is to be promoted, which comes in competition with foreign, it appears to me obvious that the raw material—dye-stuffs and drugs—which are employed in forming the fabric, must be obtained at as low prices as the foreign manufacturers obtain them, so as to enable home goods to be thrown into the market as low, or lower, than foreign. But if a duty is laid here on the raw wool and drugs and dye-stuff necessary to perfect the fabric, and no duties are laid on those articles in foreign countries whence we derive our supplies, it is clear that the value of the goods made here must be enhanced to the amount of the duties so laid; and if a proportional duty is not laid on the foreign manufactures which come in competition with ours, the American goods must go into the market at a higher cost than do the foreign, and their sale be prevented; and thus, instead of Congress legislating to encourage our own industry, it will be legislating practically to promote the industry of foreign nations to our injury.

This opinion I give as a party directly interested, being one of the largest holders of fine wool sheep in the United States.

But in a government of the people, formed by themselves for their own benefit, we cannot suppose that any tariff can be made by their Representatives which shall altogether neglect or overlook the interests of the people, and, of course the industrial interests of the country will receive that attention which their importance imperatively demands. Among other subjects which require attention is the rigid enforcement of our Revenue laws. Such rules and regulations ought to be introduced as will secure the collection of our lawful revenue. Legal proof has been given that great frauds have been practised in our Custom House at New-York, to the great loss of the reve-

nue and to the injury of our manufacturing industry, by enabling the foreign agent to undersell our own fabrics in our own markets. To prevent this evil, stringent measures ought to be rigidly enforced. As we have no Botany Bay, and hanging is out of fashion, the goods, wares, and merchandise attempted to be fraudently introduced, ought to be confiscated, and the culprit and his abettors ought to be condemned, at least, to ten years in the State Prison.

With respect and esteem,

WM. JARVIS.

TOBACCO STATISTICS.

WE give place in our columns this morning to an interesting and valuable report which was yesterday transmitted to Congress from the Statistical Office, in the State Department, in pursuance of a resolution offered by Mr. Faulkner, of Virginia, in the House of Representatives on the 17th inst.

Not the least interesting feature in this Report is the evidence it exhibits of the utility and public advantage of such a bureau as that from which it has emanated, as well as of the promptness with which such information can be supplied to Congress and the country.

The document itself contains valuable information, presented in a compendious form and well classified arrangement:

STATEMENT "RESPECTING THE TARIFF DUTIES, RESTRICTIONS, PROHIBITIONS, AND CUSTOM-HOUSE REGULATIONS, APPLICABLE TO AMERICAN TOBACCO IN THE PRINCIPLE COMMERCIAL COUNTRIES OF EUROPE."

BREMEN levies a tariff duty of $\frac{2}{3}$ of 1 per cent. Import duty is levied at the rate given on the invoice value, with the addition of freight and insurance charges. All foreign vessels (Americans excepted) must be entered at this port by a licensed ship-broker, the exemption in favor of American vessels having been conceded by the Bremen Senate in 1852.

GREAT BRITAIN levies a duty of 72c. per lb., and 5 per cent. additional. Tobacco, snuff and cigars are prohibited to be imported into Great Britain, unless in vessels of not less than 120 tons burden, and into ports approved by the Commissioners of Customs. These ports are London, Liverpool, Bristol, Hull, Lancaster, Cowes, Falmouth, Whitehaven, Plymouth, New Castle, Southampton, Preston and Swansea, in England; Aberdeen, Leith, and Greenock, in Scotland; and Dublin, Belfast, Galway, Limerick, Londonderry, Newry, Sligo, Waterford, Wexford and Drogheda, in Ireland. Duties alike from all countries and in all bottoms.

FRANCE—Tobacco a Government monopoly. By the terms of the treaty of June 24, 1822, American produce, if imported direct to France, in United States bottoms, is admitted on the payment of the same duties as apply to similar importations, in other countries out of Europe, in French vessels. The origin of the merchandise must, however, be duly authenticated and certified by the collector at the port of exportation and by the French Consul. American tobacco is purchased by the Commissioners of the Regie for the Government factories, and is admitted either in French or American vessels free of duty. In foreign vessels the duty is \$1 86 per 100 kilogrammes, (221 lbs.) The monopoly was established in 1810 by Imperial decree.

HOLLAND levies a duty of 28c. per 221 lbs. If imported direct from the

United States, admitted on the same terms, whether in American or national vessels.

SPAIN—Tobacco is a Government monopoly. Admitted at the port of Malaga in American vessels, at a duty of 20c., and in Spanish at a duty of 15c. per lb. The privilege of the tobacco monopoly in Spain is rented to individuals, and yields a revenue of about \$4,000,000 per annum.

BELGIUM levies a duty of \$1 86 per 221 lbs. In the direct trade between the United States and Belgium the vessels of both nations are equalized by treaty. In the indirect or triangular trade there are discriminations, though frequently appended by Belgium.

SARDINIA—a Government monopoly. The annual revenue cannot be calculated as the Italian States are grouped in official returns of commerce.

AUSTRIA—a Government monopoly. When imported by permission of the Government the duty is \$4 85 per 110 lbs., besides 97c. per lb. for a license to import.

SWEDEN levies a duty of 5 5-6 per lb. The duty is over 100 per cent., and importations from the United States are diminishing annually.

NORWAY levies a duty of 4½c. per lb. Owing to a difference in the weights and measures in use in Norway, the duty is about 33-3 per cent. less than in Sweden.

PORTUGAL—a Government monopoly. The raw article, for the factories of the Government, is derived chiefly from Brazil, about half a million lbs. per annum being received from the United States.

Statement exhibiting the quantities of American Tobacco exported from the United States into the countries designated, with the amounts of duties paid thereon during the commercial year 1855 :

COUNTRIES.	QUANTITIES.	DUTIES PAID.
	<i>Pounds.</i>	
Bremen.....	38,058,000	\$16,652.
Great Britain.....	24,203,000	\$18,297,468.
France.....	40,866,000	Average annual revenue from monopoly \$16,000,000.
Holland.....	17,124,000	\$21,695,000.
Spain.....	7,524,000	Average annual revenue from monopoly \$4,000,000.
Belgium.....	4,010,000	\$33,749.
Sardinia.....	3,311,000	No data from which to ascertain amount of revenue derived from monopoly.
Austria.....	2,945,000	\$129,805, besides an annual profit to the Regie of about \$7,500,000.
Sweden & Norway...	1,713,000	\$88,505.
Portugal.....	336,000	No data from which to ascertain the share of the monopoly revenue which this quantity bears; the whole amount is about \$2,250,- 000.

NOTE.—The total receipts from custom duties in France for one year (1848), according to official returns, were 146,000,000 francs, of which 86,000,000 were derived from tobacco, nearly all grown in the United States.

The Austrian Empire contains 36,514,397 inhabitants. The annual yield (average) of tobacco in Austria is estimated at 79,000,000 pounds. The only places where the plant is permitted to be grown are Hungary, Galicia, the Tyrol and Venice. In Hungary it is the leading staple, the annual crop reaching as high as 68,000,000 pounds. Of this one-third is sold to the Austrian Regie, one-third to foreign countries, and the remaining one-third is consumed at home. The average annual importation from the United States is from two and a half to three million pounds. The Regie clears a

profit of ten cents on each pound of raw tobacco, and the annual revenue to the Government is \$7,500,000.

In the States composing the Zollverein the annual crop of tobacco is estimated at 55,000,000 pounds. The revenue derived from American tobacco is about \$1,800,000 per annum.

Belgium produces annually about 1,300,000 pounds of tobacco, and imports from 9,000,000 to 11,000,000 pounds.

Holland produces from 4,000,000 to 5,000,000 pounds, and imports annually from 30,000,000 to 35,000,000 pounds. The tobacco factories in this country are stated to give employment to "one million operatives."

Bremen imports annually from 35,000,000 to 50,000,000 pounds of tobacco, most of which is manufactured in that city and re-exported to foreign markets.

Hamburg imports only from 1,000,000 to 2,000,000 pounds annually, most of which, after being manufactured, is re-exported.

The annual tobacco crop of Russia is about 25,000,000 pounds.

The annual consumption of tobacco in Spain is about 9,000,000 pounds, one-third of which is imported for the Government factories from the United States.

In Portugal the culture of tobacco is prohibited by law.

The quantity of American unmanufactured tobacco annually imported into the principal commercial countries of Europe may be thus stated: For each inhabitant of Great Britain 14 ounces; for each inhabitant of France 10 ounces; for each inhabitant of Belgium $2\frac{1}{4}$ pounds; for each inhabitant of Holland $2\frac{3}{4}$ pounds; for each inhabitant of the Hanse Towns 5 pounds; for each inhabitant of Hanover $3\frac{1}{2}$ pounds; for each inhabitant of Mecklenburg-Schwerin and Mecklenburg-Strelitz 2 pounds; for each inhabitant of the States of the Zollverein 1 pound; for each inhabitant of Russia $\frac{1}{4}$ ounce; for each inhabitant of Austria 1 ounce; for each inhabitant of Spain 3 ounces; and for each inhabitant of Portugal $1\frac{1}{2}$ ounce. The aggregate quantity of tobacco annually raised in these countries (exclusive of their colonies) is about 210,000,000 pounds. The aggregate quantity of tobacco raised in the United States in 1850 was 199,752,515 pounds.*

The average annual quantity of American tobacco imported into Great Britain during a period of three years (1851-'52-'53) was 24,543,334 pounds, on which there was levied an average annual duty of \$18,554,760. The average annual quantity imported into France during the same period was 14,690,000 pounds; into Holland 18,660,000 pounds, on which the average annual amount of duty was \$24,915; into Belgium 4,824,000, on which the average annual amount of duty was \$40,600; and into the Hanse Towns 38,637,667 pounds, on which was paid an average annual amount of \$12,643 91.—*National Intelligencer*.

* Census of 1850.

THE STARS AND STRIPES.—A correspondent of the *N. Y. Courier and Enquirer* calls attention to the fact that our National Flag is made of foreign bunting; the flags of the capitols of the United States, of the arsenals, forts, ships-of-war, of peace, army, taverns, even those of the Native American meetings, all are of foreign manufacture, and should a war come, if the flag did not rise in victory, it would in price.

METEOROLOGICAL.

THE WINTER SEASON IN INDIANA CO., PA.

NEWMAN'S-MILLS, INDIANA CO., PA., April 28, 1856.

MR. M. P. PARISH :

VERY DEAR SIR :—The last winter, like the past summer, has been a very remarkable one here, as well as elsewhere. It set in fairly and squarely just about Christmas, and from that time on it snowed, and blowed, and froze, and snowed, and blowed, and froze, and snowed, and blowed, and froze, for about six or seven weeks before it showed any signs or disposition to relax its awful grasp. One would suppose that it would make the very jaws of winter itself ache, holding on so long. It relaxed a little, and but a little. The first part of March, and in fact on till about the 20th, it was rough and tumble. The lion seemed to shake his mane most terribly. The snow was so deep and dry and drifted that it was almost impossible to get about. I suppose that it must have cost the people here more than twice as much to get their timber for rafts hauled to the river as it does usually. About the 20th of March we had a few soft and pleasant days, which settled the snow some; then it set in again and the old lion shook his tail as smartly as he had done his mane. After he had shaken himself to apparent satisfaction, he became more quiet, and seemed to rest a bit. The snow is now nearly all gone—just a little left to see how it looks. The streams have been very high and much longer than usual, though there has not been much rain. The men folks are nearly all away down the Susquehanna with their lumber, on their way to market, and till they return, if they do so, all the women are widows, or afraid they may turn up to be. The last fall was so wet that not much winter grain was sowed, but what was sowed looks very well, after being covered so deeply with its white robe for so long a time, nearly four months, except where it was covered with deep or high drifts; there it seems to look as though it had been a little too long under cover; had opened its eyes upon the waking world a little too late in the day for its own highest good. I hear much complaint among my neighbors in regard to their potatoes being frozen to death, so also in regard to their plum and peach trees. Well, such being the sober fact, I reckon the late frosts, if we should be unlucky enough to have any, won't kill the blossoms on the peach trees, and as for the plums, why the curculio may sting away at them to their heart's content without molestation, or Mr. Matthew's or any body else's infallible remedy to put them out of the way. During the past few days it has been quite warm, and the apple trees begin to show, or try to, that they have stood the westers better than their neighbors the plums and peaches. I hope Messrs. Apples will be able to bring forth abundantly their luscious fruits to perfection, to bless man and beast. Give me the fruits and the vegetables good in quantity and quality, and you, Mr. Editor, or any body else that wants them, can have the flesh-pots and all their contents. Away with flesh-pots and their contents, and let men, and women, and children, made in the image of God, live like men, women, and children, upon the health-giving, health-preserving, and health-restoring fruits and vegetables, as they come from the lap of old mother earth, and not like hienas, wolves or cannibals upon their less-intelligent fellow-creatures. Away with your flesh-pots, there is disease and death in them, and no prophet to salt them out.

The tornado that passed through here on the evening of the 12th inst., did much damage. It came very suddenly, very powerfully, and was gone, but very ruin seemed to mark its path, and to so mark it, that it will stay marked awhile I guess. On last Monday and Tuesday, the 21st and 22d, we had quite a fall of snow, which robed the ground for three or four days. Since it disappeared the weather up to this time, has been very pleasant and spring-like, and so may it continue. May our Heavenly Father bless us all with plenty, health, peace, and happiness.

Yours truly,

D. M.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

FOREST TREES OF NICHOLS, TIOGA CO., N.Y., AND THEIR USES.

PINUS RESINOSA.—RED PINE OR NORWAY PINE.

OF the Norway pine I know but little, having seen only five or six trees, growing with white pine and hemlock on a hill-side near one corner of my farm. These are the only ones of that species in this vicinity. Trees from seventy to ninety or more feet high, and from eighteen to twenty-four inches in diameter, very straight and smooth, and tapering but little, from the ground up sixty feet; limbs few and scattering and near the top. The bark is of a brighter red than any other species of pine, and quite smooth, more so than any other; wood of a reddish color, and very full of pitch; it is hard and durable. Dr. Torrey says the leaves are in pairs, shorter than the cones, five or six inches long, of a dark green color. Again he says, Leaves shorter than the cones, and cones, he says, about two inches long—a mistake somewhere. As far as I have ascertained, the cones are two inches long and sharp pointed, nearly the shape of an egg. Scales dilated in the middle, unarmed, that is without spines. Dr. Torrey in his valuable Botany says the timber is used for decks and masts for vessels.

PINUS RIGIDA.—PITCH PINE.

The pitch pine is found in this town in almost all situations, generally on the sides of hills and tops of high hills, and very frequently on diluvial formations along streams, where it is called pine plain land. It is from thirty-five to fifty feet high—generally about forty-five feet, and from twelve to twenty inches in diameter, with numerous branches, often extending nearly down to the ground; frequently a low, bushy, rough tree, with a thick, dark-colored, rough bark. Leaves in threes generally, and about three inches long, being very short and stiff; cones, egg-shaped, and about two inches long, frequently the end coming to a sharp point, in clusters of threes and fours, the scales terminating in a short, acute, reflexed point.

The pitch pine is of but little value except for firewood, it being full of pitch, and trees under one foot in diameter are nearly all sap, or white in color, the middle or sound heart being of a reddish color. In consequence of the large amount of sap-wood, the stumps, in a few years, rot when out of the ground. Flowers in May; fruit in September.

PINUS MITIS.—YELLOW PINE.

There are but a few of the yellow pine left in this town. They were never very abundant, and are only found on hills. The trees are from

seventy to ninety feet high, and from eighteen to twenty-four inches in diameter, with a regular pyramidal head; bark quite smooth and light colored. It is often a beautiful tree. Leaves elongated, slender, usually in pairs, but often in threes, channeled, the sheaths two and a half to five inches long, dark green, cones small, scales slightly prominent, with a small slender mucre pointing outward, and about two inches long, the prickel at the extremity of the scale very slender.—(Torrey.) The timber of the yellow pine is very valuable, being stiff and solid, and working smooth; it is used for floor-boards, bedsteads, oxyokes, etc. The yellow pine, like similar species, has very thick sap-wood, and its knots are full of pitch, and as hard as a bone. The knots are often found after the tree has decayed partly buried in the ground, and they will in all probability last for hundreds of years. The stump and roots remaining under ground have often been collected and burned for the procuring of tar.

ROBERT HOWELL.

NICHOLS, May 13, 1856.

RAILROADS OF NEW-YORK.

THE subjoined statistics are compiled from the reports of the several Railroad Companies of this State for the last year, made to the Railroad Commissioners:

STATISTICS OF TWENTY-EIGHT RAILROADS.

Length of 28 roads in miles	- - - - -	2,398
Number of passengers carried during the year	- - - - -	9,628,983
Average number per day	- - - - -	26,386
Number of miles traveled by all passengers	- - - - -	447,747,789
Average number of miles traveled by each passenger	- - - - -	46½
Number of miles run by locomotives	- - - - -	11,563,816
Passengers killed (1 in 1,203,624)-	- - - - -	8
" injured (1 in 385,159)	- - - - -	35
Number of locomotives owned by 28 Companies	- - - - -	695
Number of Passenger cars owned by 28 Companies,	- - - - -	817
Number of Freight, Baggage and Platform do.	- - - - -	9,309
Number of tons freight transported during the year,	- - - - -	3,347,239
Number of Bridges	- - - - -	1,087
Length of Bridges in miles	- - - - -	32
Tons coal used	- - - - -	5,335
Cords wood used	- - - - -	811,567
Gallons oil used	- - - - -	247,963
Earnings for the year	- - - - -	\$19,040,986

FIRE REGULATOR FOR STEAM BOILERS. By Wm. S. Gale, of New-York City.—This improvement relates to a method of regulating the draft damper of steam boilers, so as to increase or diminish the fire according to the pressure of the steam. When the pressure exceeds a given weight the apparatus shuts the damper and slacks down the fire; and when there is not steam enough the damper is opened so as to quicken the fire.

STATISTICS OF LONDON.

LONDON covers at present a space of 122 square miles. It contains 327,391 houses, and 2,362,236 inhabitants, the annual increase of the population being upwards of 40,000. The length of all the different streets is 1750 miles. The paving of them cost £14,000,000, and the yearly cost of keeping the pavements in repair is £1,800,000. London has now 1900 miles of gas pipes, and the same length of water pipes. The introduction of gas cost £3,000,000.

There are 360,000 burners in the city, which consume every night 13,000,000 cubic feet of gas, valued at £500,000, or two millions and a half of dollars. The bankers of London have under their control a capital of £64,000,000, and the different Insurance Companies have a cash capital of £10,000,000, and £78,000,000 in negotiable paper.

The tax on houses amounts yearly to £12,500,000. The furniture of these houses is insured to the amount of £166,000,000. Twenty thousand persons are constantly employed in keeping the docks in repair.

London consumes yearly 277,000 oxen, 300,000 calves, 1,480,000 sheep, and 34,000 hogs, worth, all together, £8,000,000. London consumes every year 1,600,000 quarters of wheat, 65,000 pipes of wine, 2,000,000 gallons of brandy, 43,200,000 gallons of porter and ale, 19,215,000 gallons of water, and 3,000,000 tons of coal. It has 350 charity associations, which distribute every year £1,805,635 to the poor, which sum when increased by private charities will amount to £3,000,000. The city, from the showing of its official documents, has 143,064 persons who have no visible means of support. Among these are 4,000 vagabonds, who cost the city £50,000 a year to support them. There are besides in London 110 professional house-breakers, 107 street thieves, 40 robbers, 783 pickpockets, 3675 ordinary thieves, 11 horse thieves, 140 dog thieves, 3 forgers, 28 counterfeiters, and 317 individuals who live directly by the profits of this illicit trade, 141 swindlers, 182 people who speculate on charity with false documents, 353 receivers of stolen goods, &c., &c.; in all 162,000 criminals who are known to the police, and who steal every year to the amount of £42,000.—*Evening Post.*

THE ANGORA GOAT.

At a recent meeting of the Farmers' Club, in this city, the Secretary read some interesting translated extracts from the "Bulletin Manuel de la Société Imperiale Zoologique D'Acclimation," Paris, 1856, as follows:

I went to Cheragas to examine the flock of Angora goats confided to the care of one of our oldest and most able colonists. We found twelve females and one buck. The buck, and ten of the she-goats are of the perfectly pure race, their long silky fleeces undulating, entirely white, shone brilliantly in the sunshine. Two of them had their fleeces as white as the rest, but much shorter and less silky. They seemed to have come from a mixture of breeds.

The flock is in a very satisfactory condition. They are lively, alert, and

in very good health, but rather too plump for the race of goats. However it is easy to see that in exterior they, to a certain degree, resemble sheep. They graze all day, sometimes in the plain, sometimes among brushwood, in company with a number of she-goats from this country and some from Malta. At night each Angora goat sleeps in a little separate stable for itself, on abundance of well-kept litter.

Their fleeces are usually neat, but in their rambles they are apt to encounter hooks from some leguminous plants, caterpillars, so that some of the fleece are torn off in getting them out. These are injurious to the fleece. These Angora goats are very rustic, they are less delicate and less susceptible in regard to their nourishment than goats of any other sort. They crop grass and browse on bushes of all sorts, eat leaves of the mastic, of climbing plants, filarias, olives, &c.

The reproductiveness of this little flock is not less satisfactory. Desiring to know the result of mixing breeds, I had two fine Maltese goats led to the Angora buck. I think the favorable season for shearing is towards the end of April, as with our sheep, pretty nearly.

The other extracts had reference to the education (taming) of partridges, to the domestication of the ostrich in Algeria, and various other curious matters.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

WATER A FERTILIZER.

MR. EDITOR:—I send you below an extract from my "Notes of Lectures on Agricultural Chemistry," which, though written some years ago, may prove suggestive to some of your former readers.

Perhaps every one of you, living as most of you do, in this rolling limestone country, has observed how rapidly land may be improved by being cultivated for a few years as watered meadow. This mode of fertility has often been attributed solely to the organic matter carried down, and spread over the soil by the water, with the increased growth of roots, and the accumulation of rotted grass left by the watered crop. It is true in many cases, that valuable organic matter is thus either produced in the soil, or transported by the running water from one place to another, and rendered an available source of fertility; but there is another part performed by this water, which should not be left out of view.

As water percolates the strata of the earth, it dissolves and carries out a variety of mineral substances which are useful to almost all soils that have been long under cultivation. Among these are the carbonates, sulphates and chlorides of lime, potassa and soda. The elements contained in these are nearly all essential in some form or other to the fertility of a soil. An excess, too, of any fertilizer, above what may seem sufficient to meet the immediate wants of the growing crop, is generally desirable, so that all the rootlets, which spread themselves through the soil in search of nourishment, may be able readily to find a supply.

Waters in lime-stone regions are generally charged abundantly with carbonate of lime in solution; and also contain more or less of valuable sulphates and chlorides. Phosporic acid, too, in some form of combination, is found

in small quantities in many of these waters. Running water, besides these valuable ingredients, often contains silica in a soluble form. For grass and the stocks of grain this is a most important element of nutrition.

From analyses of a variety of waters, from different parts of this State, I have come to the conclusion that there are few springs to be found, which do not hold in solution, salts which would be valuable, if applied to almost any soil. The water of some springs may contain matter injurious to soils. Such would be the case with a water containing proto-sulphate of Iron in considerable quantity. But such springs are rare.

The benefit then, arising from watering meadows, is not to be attributed solely to the supply of moisture thus furnished to the roots of the grass. This moisture carries with it valuable nourishment—food as well as drink—and thus performs a secondary office of no inconsiderable importance.

Fields contiguous to streams may have water conveyed to them in ditches, and spread over a large proportion of their surface. The water thus having a broad surface exposed to the influence of the sun and air, is rapidly evaporated; but the mineral matter held in solution, being involatile, is left behind to enrich the soil. If the water is supplied in quantities just sufficient to spread over the whole surface, yet so as to be entirely taken up by absorption and evaporation, the mineral matter contained in it will all be communicated to the soil and the growing crop. Then whatever portions are not appropriated at once will be left for future use. Thus we see how water may in many cases be made a valuable source of fertility.

The cost of watering would frequently be less in proportion to the benefit derived, than would be the application of the same quantity and quality of fertilizers in any other way. The summer season is most favorable to this kind of irrigation, as evaporation then goes on most rapidly, causing the most abundant precipitation of mineral residuum.

J. L. CAMPBELL.

WASHINGTON COLLEGE, Va., April, 1856.

INSECTS INJURIOUS TO VEGETATION.

LEPIDOPTERA.

THROUGH the action of some sprite, not over-truthful, our readers were led to regard the account of this general division of our subject as "concluded" in our last issue; but we are not at liberty to dismiss so important a matter quite so hastily. We have been compelled to omit even the names of many insects injurious to our forest trees, chiefly confining ourselves to those which were destructive to the vegetation found in our orchards and gardens, and around our houses. A more thorough course would fill a volume. And though we have been long occupied in this meagre sketch, on a very limited plan, we are yet far from the end of our task. More space must still be occupied by that very important order "Lepidoptera."

The moths thus far described devour the leaves of plants, and are of course more or less exposed to view; but some are concealed in roots and in stems, devouring the wood and pith, like the Aegerians among the Sphinges. The Locust tree is peculiarly subject to the attack of some of these, one is a small reddish caterpillar, perhaps belonging to the Aegerians, or the Bombices; a larger insect, which is a grub, is the *Clytus Pictus*, already described

among the beetles. A third is still larger, is a true caterpillar, reddish above and white beneath, two and a half inches or more in length, and nearly as large as the end of the little finger. It bores into the tree obliquely, lines the passage with a web, spins a cocoon around itself, and thus assumes the chrysalis form. It comes out, after transformation, a winged moth of a gray color, fore-wings thickly covered with dusky lines and irregular spots, the shoulder-covers edged with black on the inside. It expands about three inches. It was named by Professor Peck, *Cossus Robiniae*, and by Mr. Newman it is called the *Xyleutes*, or the *Carpenter*. It is the *Bomby* and *Cossus* of Europe. The moth comes forth about the middle of July. The male is much darker than the female, and has a large oker-yellow spot on the hind-wings, near the posterior margin. These moths give out a peculiar smell and hence are called *goat-moths* by some European writers.

Notodontæ—These insects infest various kind of fruit trees, toward the end of summer, and also our rose-bushes and hedges. At the South, they are said to breed twice a year, the first brood appearing in May or early in June. The young caterpillars are yellowish brown, paler on the sides, and are striped longitudinally with slender black lines. On the fourth ring is a hump. Along the back are several short black prickles. The head is red. The hinder extremity tapers, and is always elevated when the insect is not crawling. When full grown they measure an inch and a quarter or more in length. Sometimes they entirely cover the small twigs and the ends of branches. The early broods leave the trees by the middle of August, all of the same brood descending at the same time. They disappear in the night, concealing themselves under leaves or in the earth.

Another kind of insect, highly injurious to apple or other fruit trees, late in summer, belongs to the genus *Pygæra*. The head is large and black, body cylindrical with a spot on the tip of the first ring, legs dull orange-yellow, back traversed by a black stripe, and the sides striped with black and yellow. When at rest both extremities are raised, the body being bent and resting on the four intermediate pair of legs.

They begin at the ends of the branches, eating all the leaves as they advance toward the trunk. They all quit the tree at the same time, by night, descending into the earth three or four inches, and become chrysalids without making cocoons. The moths come out in July. They expand two inches or more; are of a light brown color, the head and a large square spot on the thorax dark chestnut-brown. On the fore-wings are four or five transverse lines. Near the middle of them are one or two spots, and near the tip is a short oblique line.

Noctuæ; Owlet Moths.—These form the second tribe, and are named from their habit of flying, chiefly by night. They frequent the maple, elm, chestnut, &c., is greenish-yellow above, head, tail, belly and feet black, body covered with long and soft yellow hairs. On the fourth and sixth rings are tufts of black hairs and a pencil on the eleventh. It forms its cocoon in the chinks of the bark, on fences, &c.

Nonagriadæ; Nonagrians.—These caterpillars are naked, smooth, long, slender, tapering at each extremity, of a reddish or greenish tint, with an oval, dark-colored, horny spot on the first and last rings. One of these Nonagrians is known as the Spindle-Worm. It often devours the spindle of the Indian corn. The leaves wither, and may be easily separated from the stalk. A small hole may be found in the side of the stalk, near the ground, penetrating to its center, which is perforated upwards and downwards, by this caterpillar. It grows to an inch or more in length, and to the thickness of

a goose-quill. It is smooth, roundish, naked, yellowish, the head and the tip of the first and last rings black. It also attacks the Dahlia. The chrysalis is slender, of a mahogany-brown color, the anterior edges of four of its rings roughened with little rings and four short spines or hooks, turned upwards, on the hinder extremity of the body. The fore-wings are rusty red, mottled with gray; with a spot near the tips, with a few black dots near the veins; hind-wings yellowish-gray, and a spot near the center, with two feint dusky bands behind. The head and thorax rusty-red, with an elevated tawney tuft in each. Abdomen pale-brown, and a row of tufts on the back. The wings expand one and a half inches.

These insects, as soon as their presence is made known, by the withering of the leaves, should be sought for and destroyed, while in the caterpillar state, before they turn to moths and lay their eggs.

Agrotidæ; *Agrotidians*.—These moths fly, some of them by day and others by night, lying concealed during the day. The caterpillars come up from the ground by night and devour the tender stems and twigs of herbaceous plants. They are smooth, shining, naked, of dark color, with pale and blackish longitudinal stripes, and a few black dots on each wing. Their form is cylindrical, tapering toward each extremity. They form chrysalis in the ground without any silken cocoons. The wings of the caterpillars are nearly horizontal when at rest, the upper pair covering the lower. Thorax smooth; head blackish, antennæ set on the under side, with two rows of short points. The fore-legs are often spiny. The moths come forth in July or August. On the approach of winter they descend to a lower depth in the ground, and remain torpid till spring.

It is chiefly in July and August that they do the most injury. At that season they often prove very destructive to fields of corn, to cabbage plants, potato vines, beets, peas, &c. Flowers are also devoured by them. From their habit of *cutting off* a plant near the root, they are called *Cut-Worms*. The largest of these moths is the *Agrotis Telifera* or the Lance Rustic. The fore-wings are light-brown, the hinder nearly white, semi-transparent, and veined. The thorax is gray-brown, the abdomen gray. The wings expand two inches. The smaller kind was named by Dr. Harris *Agrotis inermis*, or Unarmed Rustic.

Agrotis Messoria or the *Reaping Rustic* is similar to the *Agrotis Legetum* of Europe.

The fore-wings are reddish-gray, crossed by five bands, the first two and often the fourth being double. Spots bordered with black, hind-wings whitish, dusky-brown behind, veins dusky, head and thorax chinchilla-gray, collar edged with black, abdomen brownish-gray. It expands about an inch and a half.

A still smaller species, *Agrotis Tessellata*, the *Checkered Rustic*, expands an inch and a quarter.

The *Cabbage Cut-Worm* is larger than these, sometimes expanding an inch and three quarters. It is common in July and August, flying only by night. The fore-wings are dark ashen-gray, with a luster of satin, and are crossed by four narrow wavy whitish bands, which are edged with black. Between the third and fourth bands is a transverse row of white dots, followed by a row of arrow-shaped spots, and three white dots near the tip. The spots are edged with black and white. The hind-wings are light brownish-gray. Head and thorax chinchilla-gray. The abdomen is colored like the hind-wings.

For more particular descriptions of these insects, we must refer the reader

to some scientific treatise. It is scarcely expedient to go more into detail here. To find the best remedy is the most important matter. For preventing these ravages, soaking the seed in copperas-water is recommended, though this moth seldom attacks the seed. Any application which secures a rapid vigorous growth will be servicable, and thus the rolling the seed in lime or ashes is often found useful. Fall ploughing which turns up the insects and exposes them to the severity of the frost, and to the attacks of birds is also commended. The use of sea-weed was found to be useful by Mr. Deane.

It has been found very serviceable to secure cabbage plants and the like, by tying a slip of paper around their stems between the leaves and the root. It should be wound firmly in a conical form, and be secured by an embankment of earth.

There is still another caterpillar which is destructive to cabbages, &c., but which does not conceal itself in the ground. It rests upon, and devours the succulent leaves of plants. It is of a light yellow color, with three broad yellow stripes on each side, and one upon the back. It has hence been called the *Zebra Caterpillar*. The moth is of a light-brown color, shaded with purple brown, with spots on the wings and a transverse zigzag gray line forming a distinct W on the centre, near the outer hind margin. Hind wings are white—edged with brown around the tip. This belongs to the

Mamestradæ or *Mamestrians*.—These caterpillars are distinguished for their bright colors. The moths fly by night only. As these insects do not conceal themselves they may be killed by the hands.

Geometræ; Geometers.—We come now to the third tribe of moths, which are called Loopers, Span-Worms, or Geometers, from the peculiar manner in which they span or measure the ground as they advance. One of these, a terrible pest to the farmer and of all who cultivate trees, is known as the *Canker-Worm*. It belongs to the group termed

HYBERNIADÆ or HYBERNIANS.—The caterpillars have ten legs, six before and four behind. The male canker-worm moth has antennæ with a very narrow edging scarcely visible, and very minute feelers. The wings are large, thin and silky. The fore-wings, when at rest, are turned back, and entirely cover the hind-wings. They are ash-colored, with spots or bands upon them. The hind-wings are pale ash-colored, with a feint blackish dot near the middle. The wings expand an inch and a quarter.

Canker-worms appear usually after the first hard frosts of autumn. The time for their general rising is about the middle of March, sometimes earlier, and they continue to come forth for three weeks. The females are wingless, and instinctively make their way up the trunks of trees. In a few days the winged males appear, and accompany them in their ascent, pairing as they go. The female lays her eggs soon after, upon the extremities of the branches, from sixty to a hundred in number, placing them in rows, and glueing them together and to the tree. They soon after die. The eggs are hatched by the middle of May, or when the red currant is in blossom. The young canker-worm is a blackish or dusky-brown color with a yellowish stripe on each side, two whitish bands across the head, the belly whitish. Two minute warts occur on the tip of the last ring. When fully grown they are ash-colored on the back, and black on the sides. Some are dull-green or clay-color, with slender lines on the sides and spots on the back. Some are green with two white stripes on the back.

When not eating, they lie stretched out at full length beneath the leaves. When fully grown they are about an inch in length. They leave the tree when about four weeks old, creeping down the trunk, or dropping down by

their threads, and descend into the ground, from two to six inches. They become chrysalis in about twenty-four hours, of a light brown color. They come out chiefly by night. As the females are destitute of wings, they are confined within a comparatively limited space, except as they are carried by accident to more remote places.

To prevent the ascent of the females, tar or raw cotton, or dissolved or melted India-rubber, may be placed on bands of cloth or otherwise, around the trunks of the tree in October or early in November, and daily be renewed till the insect ceases to appear. Collars of tin or lead, or troughs containing a cheap oil with some careful stuffing of fine hay, &c., which will not absorb the oil between them and the tree, is often used with good success. A little mound of sand *while it remains dry*, around the base of the tree, has proved an impassible barrier to this insect.

Sprinkling the leaves, &c., with fine air-slacked lime is sometimes successful, if used when the leaves are wet with dew or rain. A mixture of a pound of soap to seven gallons of water, thrown upon the trees by a syringe, has also been found successful in destroying these and other insects, without injury to the tree.

After they have entered the ground, swine have been found to destroy great numbers of the canker-worm. Ploughing will facilitate this mode of their destruction. Some recommend ploughing in June and the removal of the soil to the depth of six inches, for some four or five feet from the trunk of the tree, replacing it with compost or rich earth. The earth carried away should be thrown into a pond-hole and left covered with water. These last-mentioned plans are recommended by some of the best farmers in Massachusetts.

The canker-worm has a destructive natural enemy in several kinds of birds, and in a large splendid ground-beetle called *Calosoma Scrutator*. The ich-neumon fly stings great numbers of them, depositing an egg in each worm which it pierces. Each egg hatches a maggot that preys upon the worm and destroys it. The Platygaster, another four-winged fly, drops an egg in each egg of the canker-worm, which becomes a fly like its parent.

Another span-worm, larger than the canker-worm, of a light yellow color, head rust-color, and with black lines on the back, is often found very destructive to apple-trees, elms, &c. It appears at the same time with the canker-worm, resembles it in its habits, and can be kept in check by the use of similar means.

LIVING PICTURE OF CONSERVATISM.

THE following letter was sent us a few weeks since from one of the Southern States. We trust it is not a fair sample of any extensive district, and hence we suppress all the names of men and places. We sent a few copies of our journal to the gentleman who addressed us, and hope at least for further correspondence. But we wish our readers to see what that state of things is in which too many large sections of country were once placed, and from which it is so hard entirely to remove them. ED. P. L. & A.

MR. EDITOR :

MARCH 23, 1856.

DEAR SIR:—My profession is that of a farmer (yet a servant of Christ.) I am poor, with a wife and four children, the eldest not eight years old

five servants, among whom there is one man, two women, and two small children. I live on my father-in-law's land, which, by-the-by, is good enough for any one.

Mr. A. (my father-in-law) has many servants and children, mules, horses, and asses, and very rich land, and the old man sows and reaps large crops. But he is old, and is compelled—like most rich men among us—to employ an overseer, at about a cost of \$200. But his cows are dying of pure neglect. His sheep drop their lambs unnoticed. At least three or four, I think, out of every five which have appeared this spring have died.

Mr. A. cribbed between 1500 and 2000 bushels of corn last fall, besides hay (dried crab grass), 10 or 12,000 bundles of corn-stalk blades, or fodder, and peas and pea vines without stint or measure. His hogs usually fatten on the peas and the gleanings of corn left in the field. His cows, horses, mules, and sheep can generally be kept fat in the pastures till about December 15, without any care from the owner, save a little salt and driving from one field to another when the former begins to fail.

After December 15 the stock are driven nearer to the house, without any shelter save the canopy of heaven. The shucks, cotton seed, and grass are usually strewed on the muddy ground. From one-fifth to about one-half the feed, so dealt out, is usually picked up by the cows or sheep, and, not unfrequently, a herd of swine befoul the whole before the poor cow or sheep can chew one shuck. These things ought not so to be. But "book-larnin" was not popular in his raising, and he sees that colleges make children idle, lazy drones and spend-thrifts. But still if you can convince Mr. A. that you can make *more money* by farming than he can he will hear you and pay you too.

I have no time for more details. Mr. A., I think, is better than the average of farmers among us. If you will send a specimen of the Plough, the Loom & the Anvil, also Mr. Randall's book on sheep, or Sheep Husbandry, I think I can forward you some five or ten, or, perhaps, twenty subscribers.

Address me at _____

Very respectfully yours,

— — —

ECONOMY OF PLANTATION LABOR.

A SENSIBLE writer of a series of articles in the *Alabama Planter* thus treats the matter of profits from agricultural labor:

"If the plantation was always under the immediate direction of its owner, the stimulus of interest would long ere this have directed its labor more profitably; but it has been generally otherwise by those not having such promptings, and who have had their time more occupied in active employment than in reflection. The progress made in the two branches of industry, manufactures and commerce, have been great; while in agriculture it has remained nearly stationary. Within our short memory, the spinning-wheel and the hand-loom, that worked up their half pound of cotton per day, have advanced to the great cotton factory and its thousands of spindles and power-looms, that work up their thousands of pounds a day. The largest craft in Columbus's little fleet, that discovered our shores, was under one hundred tons, is now displaced by ships of three thousand tons or more, and there is one now in progress of construction very nearly the eight of a mile-long and

over twenty-two thousand tons burthen. Why, when her sister arts have so immensely increased should she be so stationary? She yet travels slowly on the well-beaten old road, when she should be on the new rail-car and locomotive, and the good sense and judgment of the planter is alone to be depended on to place her there. My purpose is not to give directions, but to make suggestions, in aid of your own reflections. The first step on the road of progress is that the plantation must be fertile or be made so, so as to give a large yield, as it is a work of labor to apply it to poor land. The cotton should yield from four to five hundred pounds; corn, forty bushels; wheat, thirty bushels; and hay, three tons to the acre. With materials for manure convenient, you can neither make nor have it made for you from the stock-pens, enough to do so, as it requires more labor than you command. You must make it so by the addition of guano and the phosphates, pou-drette, bone-dust, etc., as they require no labor but only money. Their purchase is a part of your working capital, and must be considered so in an improved farm. If you calculate on a certain return from your bought manures that will amply pay the purchase in their superior yield, it follows that you can make your lands rich and profitable. You may be cautious in your steps, but you cannot reach great results without a very free use of manures. Your fields are to be made rich by "ungraising," home-made manures and bought manures, all requiring but little trouble except the home-made, which should be pushed in quantity up to all the labor at your command not called for by the crop. This done well and fully, with from twelve to fifteen inch deep ploughing, with the subsoil left where nature placed it as a depository and equalizer of superabundant moisture, will be considered your first step in the path of progress.

The next will be to give effect to labor, and, as preliminary to this, I would say that the labor of cultivation must be on the plough; that no labor should be done by the hoe that the plough can do as well; and no superior hand should do what an inferior one can do as well; and these are axioms to be always in view. You have a certain amount of labor at your command, and there are portions of time when you are always over busy and others of comparative leisure, and the crop to be planted should be so arranged as not to increase work on the busy time but to use up the leisure. The scheme of crop that I propose is made with this object in view. Cotton calls for all the time of those engaged in it; corn about one-third, and wheat and hay very little. Let a crop for thirty hands with twenty good ploughs be set down something as follows:

150 acres in cotton to yield 100 bales, at \$40. is	-	-	\$4,000
500 acres in corn, to yield 35 bushels, is \$18,000; deduct for			
home use \$6,000—\$12,000; at 50 cents,	-	-	6,000
200 acres in wheat to yield 30 bushels, say at 25 cents,	-	-	5,000
200 acres in cultivated hay—3 tons, say 2 tons at \$20,	-	-	8,000
			<hr/>
			\$23,000
30 workers at \$500 dollars each would be	-	-	15,000
			<hr/>
			\$8,000

"Such a crop can be attended without difficulty, as there is but about 20 acres to the hand that calls for cultivation. The small grain will be ploughed for and put in in the fall and not in crop time. The cutting in May will be the work of the reaper, and the cleaning out can well wait the laying by of the corn for any call on manual labor. The hay crop is to be ploughed in

April, in advance of the busy time, and the mowing and saving will be in August after it, and the labor principally on the machine. The price for hay is not too high if you are convenient to market, and if not put it down at ten dollars the ton. It is a very valuable crop, properly made, and much superior to that which springs up in June after laying by the corn. With a good hay crop in, I should not waste much time in the fodder field."

JOURNAL OF THE U. S. AGRICULTURAL SOCIETY.

PART I. of the Journal of the fourth annual meeting of this Society has been sent us by its accomplished President, Mr. Wilder. It was "edited" by Mr. King, the Secretary. It is full of very valuable matter. For our present issue we have marked certain portions of it as of peculiar importance, and publish them under separate titles below. We begin with

THE IMPORTANCE OF METEOROLOGY TO FARMERS.

This topic was treated by Prof. Page as follows:—"A year ago last May, the water of our wells and deep springs began to fail, and has continued to diminish up to the latter part of the past month. During the whole of that time not a rain has occurred which has penetrated the earth beyond the wants of vegetation. My observations have not been systematic, but I have watched the perpendicular sides of deep excavations, and have repeatedly dug into the earth and measured the depth of springs, and am satisfied that during that time no rain has percolated the earth so as to reach the deep springs. Consequently all the water we have been drawing up from the earth for more than a year and a half, fell *previous* to that time. The farmers and gardeners in my neighborhood have suffered great privation, distress, and losses from this state of things. They have deepened their wells and dug new ones, and still the water has given out, and many have been obliged to cart water for a long distance. Of all this we have no published report. It is for the philosopher to generalize from accumulated data, but the farmer wants to be informed every day of what is going on and to judge for himself. The barometer is not of much *immediate* use to him, but he must have the hygrometer, the rain-gauge, the thermometer, and the wind-gauge. I need not stop to explain the importance of noticing the velocity of the wind in connexion with temperatures, for every farmer and gardener knows this *practically*. The ways are many and various in which these observations will benefit the farmer. For instance, I ask who can raise here a California potato or a California onion? And who can tell why they *cannot* be raised out of California? I have been trying for two years to raise them here and have failed. I have planted California potatoes ten inches in length and three in diameter in *rich* soil, *medium* soil, *poor* soil, and in all have obtained potatoes not much larger than nutmegs; and so with their onions; and so it is with all their gigantic vegetables. They degenerate immediately when planted here. Is it due to any peculiar chemical constitution of California soil? I think not. It can hardly be supposed that similar soil does not exist elsewhere; and the fact that all their vegetable productions are monstrous, is an argument against any peculiarity of soils. I am inclined to think that the causes are chiefly atmospheric; and, as we can imitate climate as well as soils, it might be of great value to our farmers and gardeners if they

could be furnished with information upon this subject; for it would be a great acquisition if we could raise such vegetables here.

"In conclusion permit me to say that, in carrying out *any* system of observations for the benefit of agriculture, we should not lose sight of the importance of publishing *daily* reports, in such manner as to be widely circulated."

ENTOMOLOGY.

The practical value of a knowledge of this science, was thus illustrated by Mr. Glover.

Several years ago, when I first settled on the Hudson, and was almost entirely unacquainted with either horticulture or entomology, I wished to raise my own parsnip-seed, having been the previous year very much disappointed with non-germination of some purchased in a store, where it had probably laid on the shelf unnoticed for several years. Accordingly the best roots were procured; these grew, flowered, and finally seeded, when several caterpillars made their appearance in the umbels, which they webbed together so as to form a shelter and then leisurely devoured the footstalks and seed, thus destroying my hopes of a crop. I endeavored, but in vain, to raise some of these caterpillars, to satisfy myself what sort of a moth would be produced, as they all died in confinement or produced distorted and deformed chrysalids upon the surface of the earth. Finally, I determined to examine underneath the plants in the ground to see if I could find any chrysalids there; but none were to be seen. At last I examined the stalk again more carefully, and accidentally discovered several small perforations along the sides. This stalk was immediately split open by means of a garden-knife, when, lo and behold, the large hollow of the stem was found to be entirely filled with caterpillars and chrysalids, snugly ensconced each in its own peculiar slight silken web. The discovery thus accidentally made induced me to burn all the hollow stalks left, and hundreds perished in the flames. I have merely mentioned these two facts to prove how it is, by a proper study of the natural instincts of almost any insect, some means may eventually be discovered to destroy it in some of the many changes it undergoes. Of some, the eggs may be plainly discovered on the trees when the leaf is fallen. Take, for instance, the tussock moth, which is sometimes so injurious to fruit and shade trees. The female of this moth lays her eggs in a frothy matter on the top of a cocoon, sometimes placed on the branches, trunks, or enclosures, and occasionally under the dried leaves that remain suspended from the tree by means of the silk by which the cocoon is formed. These are easily seen, and can be gathered together and burned in the winter, similar to the cases of the hang-worm before mentioned. Others might be destroyed to the best advantage in the caterpillar state, especially when they congregate together at certain times of the day in their web, and only come out at other stated times to devour the foliage; others in the chrysalis state, as the before-mentioned parsnip-worm; but yet it is in the perfect state that we can hope to attack them to the best advantage, as with one perfect female in spring all her future progeny for that year are destroyed.

Lights have been used to attract insects with much advantage; one was used by a horticultural friend last year. This insect-trap (for it is nothing else) is formed like a large box-lantern, only instead of one glass forming a side, two glasses are used, which slope inward to an angle towards a light placed in the interior. These two glasses are left open an inch or more in the center, as the case may be, and can be slid more or less in and out by means of proper grooves. The insect, seeing the light, approaches the

glass, and, following the angle, it enters the opening, and dazzled by the light, is incapable of finding the small place where it entered, and either burns its wings against the glass tube which protects the lamp or is precipitated into a vessel underneath filled with some glutinous liquid, in which, incapable of using its wings from the adhesive nature of the compound, it must finally perish. Thousands of the small vine-hoppers, night-flying moths, and beetles were thus destroyed. Several planters South prescribe the burning of fires of fat pine wood on the appearance of the ball-worm or caterpillar-moth, as these insects are attracted by the lights and destroyed by the flame. Indeed, it is only by the instinct of insects that they can be exterminated. Appeal to their antipathies by putting anything they positively dislike in their way, and they will avoid it; place anything they particularly like in the shape of food and hundreds are attracted; for instance, the flies and wasps in casks of sugar. Love itself is used by certain aurelians in Europe as a means of attracting the unsuspecting males of certain species, as when an unimpregnated female is placed in a gauze box the males for hundreds of yards around will invariably gather and flock to the place of her imprisonment, where they are easily captured. It will not be improper to mention here the result of an experiment instituted by Mr. Jesse Wood, of Quincy, Florida, and several other tobacco growers of that neighborhood, to stay the ravages of the much-dreaded tobacco worm, which is only the caterpillar state of the (*sphinx Carolina*) tobacco fly or horn-blower, as it is most commonly known by the planter. This insect, when in its perfect or fly state, is in the habit of frequenting the plants of the *datura stramonium* or Jamestown weed, during the evenings for the sake of the sweet liquid substance at the bottom of the tube of the flower, and which is easily extracted from its receptacle by means of a long flexible proboscis, furnished by nature to the insect for the purpose. This fact being known to several intelligent planters experiments were instituted which I am assured have proved highly satisfactory.

The Agricultural Department of the Patent Office received a letter from Mr. Jesse Wood, of Mount Pleasant, near Quincy, Florida, detailing his experience in this matter. After mentioning many experiments, he gives the following recipe for a poisonous composition to be put into the flower: "One pint of water, one gill of honey, and one ounce of cobalt. This to be put into a bottle, with a quill through the cork. The flowers being picked off, (as the composition poisons the plant,) one drop is put into each blossom and any fly tasting of this will be killed before it can deposit eggs." He concludes by saying that he "considers this discovery of immense value to the tobacco growers, and, if it should lead to the destruction of the cotton caterpillar and ball-worm, it will be of incalculable benefit." Now, what Mr. Wood says in the last part of his letter is very true, as combined with the former experiments made by Col. Sorsby, of Columbus, Georgia, and reported in the last year's agricultural report of the Patent Office, where he states that the moth of the ball-worm is exceedingly fond of molasses and vinegar, which can be placed in shallow plates on posts throughout the plantation; and if these were poisoned, it might possibly prove the saving of thousands of bales of cotton annually, although I must confess that our lively and useful little friend, the honey-bee, might also be killed by the poison at the same time; but I think that, in the case of cotton versus honey, cotton would gain the verdict. The cotton-caterpillar in its moth-state will also suck certain substances with its tongue or proboscis, and it now only remains to find out what it is particularly fond of as food, and then discover also some quick and

efficient poison. Several other insects, beetles, night-moths, the cut-worm-moths, and several others, might possibly also be destroyed in a similar manner if this is found to answer. Last year I made several experiments with cobalt, strychnine, and arsenic, which are not of consequence enough to be reported, as, although several succeeded, I must own others again failed in a most singular manner. However, as the subject has once been started, it would be well for several able and scientific men in different parts of the country to make experiments and then report them for the good of their fellow-sufferers.

QUESTIONS PROPOSED BY THE ROYAL SOCIETY OF SCIENCE IN
DENMARK.

PHILADELPHIA, May 10th, 1856.

TO THE EDITOR OF THE PLOUGH, THE LOOM AND THE ANVIL:

DEAR SIR:—I send you, herewith, a liberal translation of a circular letter recently received from the Royal Society of Science of Denmark.

I presume it would please them to have it published in the United States, and I know no better medium to the reading Americans than your journal.

I am, very respectfully, your obedient servant,

P. A. BROWNE.

QUESTIONS PROPOSED, IN THE YEAR 1855, BY THE ROYAL SOCIETY OF SCIENCE IN
DENMARK.

1. *By the Class of Mathematics.*

The general properties of new imaginary quantities are to be considered, which Galois introduced into the theory of numbers, in such a manner that their nature and qualities may be compared; such as are obtained from the consideration of what are called harmonies, with the nature of imaginary algebraic quantities occurring in the theory of equations.

2. *By the Class of Natural Philosophy.*

Since no answer has been given to the question proposed by the Society in the year 1853, it is again propounded.

As marine Sponges or Spongozoa are not yet so accurately known that we can say for certain with what other organic existences they are chiefly connected, the Society desires these new organisms to be embraced in the investigation. Therefore, it offers its medal of gold to the person who shall satisfactorily examine one species, or more, of those Sponges which exist in the ocean, as well in reference to their natural history as their structure and physiology. It is likewise of importance in this investigation that the origin and development of the different species be separately considered. The essay may be illustrated by diagrams and necessary preparations; also specimens of each species may be furnished.

The prize is the golden medal of the Society, and 100 Imperials.

3. *By the Class in Philosophy.*

An historico-critical narrative is desired of the principal instructors who have obtained some celebrity since the Reformation to the present time.

The hot vapors of water are of constant use in the various arts, whereas the hot vapors of alcohol, ether and sulphuretted carbon are not yet, as far

as known, applied to the arts, although it cannot be doubted that great advantage may be derived from the skillful use of such vapors. In order to encourage experiments, on this subject, the Society offers a prize of 200 Imperials for the essay which shows the best manner of applying the hot vapors of alcohol, ether, and sulphuretted carbon.

Specimens must accompany the Essay, and also an estimate of the cost of preparation.

1. Numerous experiments having been made in reference to the manner in which roasted Coffee affects the human system, it has been ascertained that the volatile oil formed is of very great importance. Now since it happens that in parching the roots of the Leon. Tarax. or the Cich. Intyb,* if they are parched and prepared with sufficient care, oils of a similar effect are produced, the common opinion prevails that if these were substituted for Coffee, they would produce effects similar to roasted Coffee. Therefore, the Society requests that it be shown, by recent and extensive experiments, what is the real value of these substitutes, and also the best manner of preparing and preserving them.

The Society offers a prize of 200 Imperials to the person who will produce the best technical and chemico-physiological examination of Cich. and Leon.

2. The oxides of metals have been discovered in many plants, not only iron and manganese, but also copper.† It has been lately shown that other metals also—for instance, lead, tin, zinc, nickle, and cobalt—exist in plants, and can be seen in their ashes. Now, since it has not yet been shown what portions of these substances are of use in the development of plants, the Society desires that any one of the common trees of our forests, for instance, the oak, may be carefully examined with reference to its particles of metal, and in such a manner that it may be ascertained, by comparing with each other the different portions of the tree, as the wood, bark, leaves, and fruit, what quantity of metal exists in each part. The nature of the soil in which the tree grows must always be regarded.

The prize is 200 Imperials.

The Essays may be written in Latin, French, English, German, Swedish, or Danish. They are to be known not by the name of the writer, but by any mark which may designate his name and residence. Members of the Society, and persons living in Denmark, are not allowed to be competitors for the prizes. The person who shall give a satisfactory answer to the questions proposed shall receive a gold medal valued at 50 Danish ducats.

* *Leontodon Taraxacum* or *Cichorium Intybus*.

† I have rendered "aes" copper instead of brass, because the latter metal is not found in nature. "Cuprum" is the proper word for copper.

IMPROVED WASHBOARD. By Royal Hatch, Assignor to H. C. Hatch, of Strafford, Vt.—The washboard is composed of beaded rounds placed together lengthwise in a frame, the beads of one round fitting into the spaces between the beads of the next round, so that a perfect corrugated surface is obtained for the clothes to be rubbed over. The water will pass through the rounds, but the suds will be retained, spattering will be prevented, &c.

EXPERIMENTS IN GROWING INDIAN CORN.

At the late meeting of the Oneida County Agricultural Society a premium of \$15 was awarded to Mr. H. H. Eastman, of Marshall, for a series of experiments with different manures in the culture of Indian corn. The following statement was furnished the Society by Mr. Eastman:

Different kinds of manures used.	Manures how applied.	Quantity of manures used.	Weight of produce in the ear.		Rate per acre.	
			Lbs.	Oz.	Bush.	Lbs.
No manure.....			30	8	52	50
Compost*.....	In hill.	Half shovelful.	48		82	68
".....	Top hill.	"	25		43	15
Quick lime.....	In hill.	Half handful.	38	8	57	68
".....	Top hill.	"	30		52	50
Gypsum.....	In hill.	"	36		62	16
".....	Top hill.	"	33		57	03
Ashes.....	In hill.	Small handful.	30	12	53	10
".....	Top hill.	"	38	8	66	38
Equal parts lime, gypsum and ashes.....	In hill.	"	32	4	55	52
".....	Top hill.	"	35	8	61	25
Guano†.....	In hill.	Tablespoonful.	20		34	40
".....	Top hill.	"	33	8	57	63
Guano and Superphos- phate of lime‡.....	In hill.	Do. of each.	51	4	88	41
".....	Top hill.	"	37		63	67
Superphosphate of lime§ In hill.		Tablespoonful.	37	8	64	57
Lime.....	Top hill.	"	45		77	55
Equal parts poudrette, superphosphate of lime & guano 	In hill.	"	43		74	23
".....	Top hill.	"	33	8	57	63
Poudrette.....	In hill.	Handful.	41	12	72	11
Night soil composted..	In hill.	Double handful.	33	4	57	33
Hog manure.....	"	"	49		84	49
Untermated horse ma- nure.....	"	Half shovelful.	39	12	68	49
".....	Top hill.	"	28		48	28
Hen manure.....	In hill.	Handful.	48		82	68
Carb. of lime.....	"	"	42		72	42
No manure.....			32		55	22

* Composted 4 muck, 4 hog manure, 1 lime and 1 ashes.

† Intermixed with soil. Seed injured.

‡ Superphosphate on seed; Guano on outer edge of hills.

§ In contact with the seed.

|| Intermixed with the soil.

The above experiment consists of 28 rows, and 40 hills in each row. The ground was green sward, plowed early in the spring, about 5 inches deep, harrowed thoroughly, and marked out into rows two ways at 8 angles, 3 feet apart each way. Planted the 12th of May with a "white flint" variety of corn. The cultivation of the growing crop consisted mostly in the use of the cultivator, which was run through between the rows four times alternately in different directions—with one slight hoeing only with the hand hoe. Soil, gravelly loam. I calculate the cost of cultivation, not including cost of manure nor interest of land, at about \$13 per acre. The corn stood upon the hill till killed by the frost, when it was husked, each row separately, and weighed in the ear, allowing 70 pounds to the bushel.

CULTURE OF POTATOES.

AN interesting discussion on this subject was had at a late meeting of the American Institute in this city. The experience of different persons seems to lead them to opposite conclusions on this, as on many other topics. Our readers will remember a very different course from that here recommended, was advised by a practical writer, who gave his experience on the speedy raising of potatoes, which was published in one of our recent issues.

In the recent debate, Mr. Sears, of the *Phalanx*, New-Jersey, said they had experimented largely on the best manner of preventing potatoes from rotting, and found that they kept best when taken immediately from the field as soon as dug, and put in slatted bins in a cellar, where the air could circulate through the pile, but no light ever came to them. He never observed any difference in their keeping, whether put up wet or dry. Their potatoes grew in dry land, the soil of which did not adhere much to the tubers.

Prof Nash, of Amherst, Mass., had long been satisfied that potatoes never should be exposed to the light. Many farmers are in the practice of sunning their potatoes all day after they are dug. It is a bad practice—no matter how damp they are, or how much dirt adheres to them. My father used to raise large crops of potatoes, and his method was to have them put in carts as fast as dug and hauled to the house, and dumped into a chute that led down to the bin in the cellar. In the spring the potatoes under the chute were found buried in earth, and were always the soundest and best, and yet had always been in damp soil. They were often found as fresh in May, as they were when dug in October. Probably the true economy of growing potatoes is to plant them in light land on inverted turf, and only calculate upon a light crop. They are certainly less liable to rot in such land than in richer soil. I would plant them in four-inch furrows and cover them with a harrow, and just as the plants begin to look out, give them another harrowing, and afterward, hoe once, but raise no hills. A good after-dressing may be made by mixing four bushels of ashes, one bushel of plaster, and half a bushel of salt, and give twelve to twenty bushels to the acre.

JUDGE MEIGS.—If the soil is wet I would hill; if dry, level culture will do.

A Connecticut farmer said he planted a piece of under-drained swamp, one half in ridges and one half flat, and that the first produced a good crop, while the flat culture was a decided failure.

ROBERT L. PELL.—Col. Muir, of Scotland, has produced potatoes from clay forty feet below the surface. This contradicts the idea of the potato being indigenous solely to America.

PROF. NASH.—Forty years ago the people of Deerfield, Mass., adopted the level system of potato culture, because experience taught them it was far preferable; yet so slow are farmers to adopt new systems, that the plan has not spread out fifteen miles from the original starting point. I do fully believe that the loss in hilling corn and potatoes in Massachusetts during the 225 years that it has been practiced, both in loss of labor and productiveness, would make a sum sufficient to purchase the whole State, both real and personal property.

ROBERT L. PELL.—I planted potatoes on a drained swamp, and found

that the rows over the drains were far superior to the others. From further experiment I became satisfied that the effect was produced by the circulation of air through the drains and the soil. I raised 425 bushels per acre; I used no manure, because the soil was that of a bog-swamp. I afterward put 200 bushels of lime per acre, and then hauled out and used the muck, and found it as good as manure.

Mr. Lowe said that raw muck put upon sandy land makes good manure for potatoes. So does spent tan bark.

TRIAL OF COKE ON THE HUDSON RIVER RAILROAD.

A TRIAL of two samples of coke, one English, the other American, has been recently made on this road. The object in making it was to ascertain whether it would be expedient to purchase a lot of English coke, which was offered at a very low price. The engine used for the experiment was a common wood-burner. The coke burned freely, and made steam well; but in a very short time the fire-bars were melted by the English coke. This was owing to the clinkering, clogging of the grate, and consequent unequal and blow-pipe action of the draft, which, while the whole fire was not very powerful, produced in parts such intense heat as to melt the bars.

The American coke was free from clinker, and burned freely without fouling the grate or leaving anything upon it or apparently injuring it.

There was no design to ascertain the amount of water vaporized, and no notes were kept from which the relative economy of coke and wood can be determined. All that is proved is, that a common wood burner can work well with coke, if it be of such quality as will not foul the grate.

The difficulty of melting fire-bars is an old one; the early engines on the Liverpool and Manchester Railway used sometimes to have a new set of bars destroyed in a single trip. But since companies have taken measures to obtain coke of a suitable quality there has been very little trouble. The obvious conclusion in this case is, that the English coke tried was very different from that now commonly used on English roads; and yet, had it now been tried for the first time, and without the concurrent trial of a better quality, we should probably have been assured, as the result of it, that coke could never be used in locomotives.

But since it can be used, without the expense of altering fire-boxes, we conceive it to be a duty to the traveling public to adopt it, as a means to get rid of the smoke and sparks of wood, and also a great part of the noise which is made by the striking of the steam against the cone, and other parts of the spark-arrester. This contrivance sends out the smoke in a direction nearly horizontal, and insures to it the best chance of finding its way into the cars. But from a straight and unobstructed chimney the smoke is projected upwards clear of the train, and it is only when there is wind blowing against contiguous embankments, or other objects to disturb its course, that the smoke touches a train.

Even if the cost of coke should be greater than that of wood—instead of less, which is most likely—this company would probably find it profitable for passenger trains; because the sparks, which compose the greater part of

the solid impurities of the air which they supply to their passengers, are so injurious to ladies' dresses, that many prefer to go by steamboats, who would go by rail if this nuisance were removed. This is our argument.—*Railroad Advocate.*

THE VERBENA.

THIS is a beautiful flower almost in perpetual bloom, and presenting every variety of color. The *Country Gentleman* gives the following article and list:

Search the whole list of plants—and there name is legion—and there is none, taken all in all, that can at present dispute the palm with the Verbena as a summer flower for bedding purposes. So varied are they in color, somewhat so in habit also, that a large space could be planted exclusively with them and yet present anything but a monotonous appearance. Indeed so indispensable are they in the arranging of very extensive geometric flower gardens, that they always form a large proportion of the entire plants used. No other plant of the herbaceous character, is so nicely adapted to supply this demand with so little trouble. Secure a few dozen pots in the fall, of a healthy character, and by the time they are wanted to plant out in the spring, with proper conveniences, which need be nothing more than a very small greenhouse and abundance of pits, thousands of the best plants may be obtained. Any one who remembers the original imported kind, *Melindress*, a very rich scarlet, from Buenos Ayres, and considers for a moment, that the numberless different tints and shades now to be met with, counted by hundreds in Florists' catalogues, have sprung directly from that, can have no better illustration of the sportive character of certain plants when raised from seed, and which only need a little care in the selecting of the seed to be improved. Even if sown out of doors, and treated as an annual, it will flower in August and continue till entirely destroyed by hard frost. Any ordinary good garden soil will grow them to perfection, providing it is rich enough, and if too stiff and retentive in its nature use plenty of street dirt, good sharp sand and decayed leaves, while if the soil is already very sandy, thoroughly rotten manure should be used very plentifully. To keep in a flourishing condition all summer, they require abundance of room, so that as the branches extend themselves they can find nourishment by the roots that strike into the soil from almost every joint. If planted less than a yard asunder they soon fill the entire space, after which the flowers will not come so freely. Where land is plenty and a large space of it to plant, four or six feet asunder is not any too much, as many of the strong growing kinds will extend over a space of six or eight feet during the season. In a plant like this, sporting into so many different varieties, and raised from seed by so many florists, almost every locality having one or more, who is raising and distributing those of his own naming, it is difficult to give a selection of kinds obtainable, and suitable to all, but the following list are known and tried kinds, and if not as good as some of the new ones advertised by the different florists, they can all be depended on as first-rate.

Auricula, lavender blue, white eye.

Black Warrior, dark indigo purple.

Blue Bonnet, deep blue, shading to purple.
 Indispensable, (Beck,) very rich crimson.
 Defiance, the best scarlet.
 Fair American, large white, strong grower.
 Henry Clay, rich ruby, maroon center.
 Jenny Dean, bright cherry, pink center.
 Mad. Lemounier, fine satin rose, white stripe.
 Mad. Sevigne, dark plum purple.
 Mazeppa, rosy lilac and purple.
 Phenomena, intense scarlet crimson.
 St. Margaretts, rosy scarlet, violet center.
 Thalia, pure white very fine.
 Uncle Tom, very dark maroon.
 Visceta, rich crimson maroon, free bloomer.
 Beauty Supreme, satin rose.
 Beauty of Astoria, light pink, shaded, red.
 Clotilda, lilac and purple, very showy.
 Fadette, bluish white scarlet eye.
 Fair Maid of Perth, bluish, cherry eye.
 Gen. Scott, blood-red or crimson.
 Gem, (Bauch,) bluish pink, shading to pink in center.
 Heroine, deep lilac blue.
 Imphigene, lilac and rosy purple.
 Lord of the Isles, fine deep rose.
 Mad. Clonet, rosy crimson, shading dark in center.
 Macrantha, rose white, rose purple center.
 P. B. Mead, rich shaded pink.
 Painted Lady, white crimson center.
 Queen of Whites, good white.

ARTIFICIAL PROPAGATION OF FISH.

At a recent meeting of the Boston Society of Natural History, Dr. H. R. Storer, at the request of the President, briefly stated some of the well-known facts relative to the artificial propagation of fish.

The operation of obtaining the ova and milt is very simple, consisting merely in pressing the body of the fish, from the head towards the tail, and collecting the spawn in water, in a common vessel. The contents of the vessel should be put in motion occasionally, to prevent the collection of parasitical growths upon the eggs. Freezing, or even complete dessication of the eggs does not always necessarily destroy them; so that some kinds of eggs may be transmitted from one place to another in the dry state, and ready to be matured. Dr. Algernon Coolidge, of Boston, has estimated the cost of raising one million of trout to be less than two hundred dollars.

Dr. Storer referred to the extirpation from this Commonwealth entirely of salmon and almost entirely of trout, and to the constant demand for these fish in the markets at exorbitant rates; to the comparatively small supply of salt water fish, wholly insufficient, if proper efforts were made to extend the country and Western trade; and to the excellence of many species

of fish, now unsaleable because not generally known, as the whiting, turbot, &c.

The feasibility of artificially propagating salmon and trout has been proved in France and Scotland, and that of shad and alewives has been proved in Connecticut, on a small scale, by Dr. Wm. O. Ayres, formerly a member of this society.

The capacity in many species of fish, of adapting themselves to new localities is well known; from fresh water to fresh water, as is shown in the instance of the common pickerel, placed in the ponds of Berkshire County, where there were none before, and in the instance of the great Northern pike of the lakes, transplanted to the Connecticut river; from salt water to fresh water, as is illustrated by the presence of smelts in Jamaica pond; and from salt water to salt water, as is proved by the tantog planted in Massachusetts bay, North of Cape Cod, and consequently in water of much colder temperature.

Dr. Storer alluded likewise to the comparatively small expense, both of the preliminary experiments, and of the business when established upon a permanent basis; to the adaption of many of the waters of this State to this purpose; and to the advantages of a greater supply of fish to the general health, and in reducing the prices of meat

AN ORNAMENTED COTTAGE.



THE situation for which this building was contrived was bold and beautiful, overlooking the rich valley of the Housatonic, in Berkshire Co., Massachusetts.

The plan is arranged thus. In front, a few steps, protected by an overhanging balcony to the window above, lead to the hall door, which opens into a vestibule, No. 1, on either side of which are hall closets with sash doors towards the inner hall, and narrow windows upon the exterior.

Within this is the inner hall, No. 2, and in it the principal staircase. This hall is ten feet in width, and, exclusive of the entry and closets, twenty-eight feet in length.

Connecting with it on one side is a drawing-room, No. 3, with a projecting window in front, and a double window opening on to the side veranda; its dimensions, exclusive of bay-window, are twenty-two by sixteen. In the



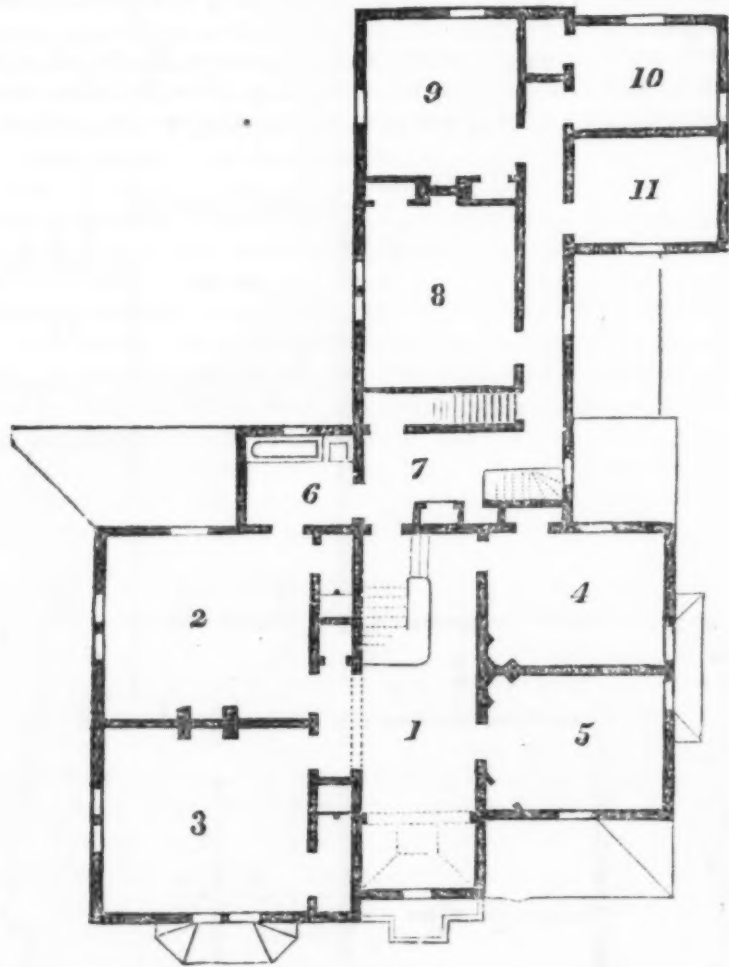
ORNAMENTED COTTAGE—PRINCIPAL FLOOR.

rear of this is the library, No. 4, the same size as the drawing-room, with the exception of the space inclosed by the projecting window. In this room are double windows to the veranda at the end, and one at the side, corresponding to which is a recess in the wall for a mirror, the finish around which should be the same as that to the window, and the symmetry of the room will thus be preserved.

Upon the other side of the hall is the dining-room, No. 5, a fine apartment sixteen by twenty-four, exclusive of a recess at one end for a sideboard, and

a projecting window upon the side. The room also contains a closet, and attached is a pantry or waiter's room, No. 6, with a sink, and a door connecting with the kitchen.

At the end of the principal hall a sash door leads into an entry, No. 7, from which is the back staircase to cellars below and floors above. In this



ORNAMENTED COTTAGE—CHAMBER FLOOR.

is a closet for fishing-apparatus, baskets, &c., and from it a door leads into a dressing-room, No. 8, containing wash-stand, water-closet, and an outer doorway leading to the veranda.

Beyond these is the kitchen, No. 9, a large, well-lighted room, with a large closet at the end, opposite the fireplace, and next the latter provision is shown for an old-fashioned brick oven, if the family desire such an appendage. The fireplace is of a large size, suitable for a Metropolitan range and roaster.

In the rear of the kitchen is the laundry, No. 10, with a boiler inserted near the fireplace, and from this a door leads into an entry connected with a platform conducting to the outer yard, and, as shown by the plan, two water-closets, and a tool-house, are inclosed within this portion of the building. The remaining portions of the plan are No. 11, a larder, and 12, a small wood-house for the storage of fuel for immediate use. A side veranda shelters a rear entrance to a hall leading to the kitchen, &c., by the side of the larder,

and examination will show that every comfort and convenience has been secured, in the arrangement of the plan of this floor. The height of the rooms in the main part of the house is eleven feet, and that of those in the kitchen wing, nine feet six inches.

The chamber plan shows a large hall, No. 1, at the end of which an arch opens into a lower bay, from which is a window on to the balcony. From the side of the hall a similar arch leads into a vestibule conducting to a chamber, No. 2, by the side of which is a large hall-closet, and in the room itself one of ampler size and fitted with drawers.

In front of this is a chamber No. 3, and at its side a large closet. Upon the other side of the hall, above the dining-room are chambers 4 and 5 with closets.

The wing building contains a bathing-room, No. 6, which is provided with a door into chamber No. 2, so that in case of necessity, they could be used in connection. The entry No. 7, has in it a house-maid's closet and sink, and under the stairs which lead to the space in the roof above the ceilings, in the principal body of the house, is a large linen closet.

Nos. 8 and 9 are large bed-rooms, each one provided with a fireplace and closets, and 10 and 11 are sleeping-rooms of smaller size.

In the front part of the house the high pitch of the roof affords an opportunity of partitioning off, if wished, three good sleeping-rooms for servants, though independently of the increased accommodation thus capable of being made, the plan shows that a liberal amount of room is laid out upon this floor.

The cost of this building, finished fully, including a large furnace to render the house comfortable in case of winter occupancy, plumbing and painting, would depend upon situation; in the instance for which the design was made, the contract comprehending all these, was about six thousand dollars, but a very careful finish was insisted upon, and the house contains all the appendages found in a suburban villa.

These engravings and the substance of the description are taken from "Homes for the People," an excellent work by Gervase Wheeler, an architect in this city, and published by Mr. Scribner. The volume is well worth the attention of those intending to build or improve. The price of the volume, sent by mail, is \$1.

FOR THE PLOUGH, THE LOOM AND THE ANVIL.

A GOOD FARM GATE.

MR. EDITOR :—I cannot believe that we, the farming community, sufficiently appreciate your valuable work, the P. the L. and the A., (name too long,) as a medium through which to interchange our experience and various ideas of improvement.

We seem to treat it as too many of us do our lands; we willingly glean from its pages as from our fields, whatever we can appropriate to our use, but never think of making any similar return. Thus, my dear sir, we are taxing your brain and your pen to supply, and gather from sources at your command, such material as you may think will be acceptable to us, or adapted to our

wants. I do not know whether you are a practical farmer or only an editor; but I know that many of our practical farmers can furnish many articles, upon various subjects of practical utility to each other, thus receiving and conferring mutual benefit.

Hoping that others will act upon the above suggestion, I will contribute my mite, by offering the best pattern and mode of hanging a FARM GATE.

It is very desirable to every good farmer to have good and substantial as well as cheap gates, at all places on his farm where there is a necessity of various passings with wagons or stock, &c.

This gate is hung upon a cast-iron pivot, with an ink or socket let into the beam in an inverted position. The pivot should be about 1 inch in diameter at the point for a heavy gate, for one of 500 is as easily opened and shut as of 100 lbs. I need not remind any one of the necessity of selecting the most durable timber for posts. Locust is the best. To preserve the post from absorbing rain at the top, it may be tapered to about 4 or 5 inches, and secured by an iron band to prevent splitting.

The beam should be tapered from six inches at the pivot to about 3 at the point. Four bars framed into an upright will generally be sufficient; more or less may be used. The plank or boards should extend a little so as to lap upon the post against which it is shut and fastened. Any fastening may be adopted according to fancy. The mode which I have adopted, and think equal, if not superior to any other, is to insert a hook into the post to receive the end of the beam. This is secured firmly in its place by a pin passing through the post; the pin should be secured by a string or a small wire chain is better, of just sufficient length to allow the pin to be drawn into the post, but not entirely through, thus it is always kept in place, and easily forced in with the finger or a stick if on horseback, and as easily shut and fastened after passing through. After the gate is hung in its place, a weight sufficient to balance it should be attached below the end of the beam which extends beyond the post. This may be done in different ways; a billet or log of wood, fastened by slats pinned upon the sides, is perhaps the simplest. A very neat and convenient way is to make a box into which rock or any heavy article may be placed till the gate is balanced. The beam should not be placed at the top nor mid-way the gate, as I have often seen them, but just one-third should be above and two-thirds below the center of beam and weight as before described, and the gate will always hang perpendicular.

The superiority of this gate will doubtless be obvious to your readers. 1st. it is the cheapest, if made plain; for it is equally adapted to lattice or any kind of fancy work. 2d. The pivots cost only $\frac{1}{8}$ to $\frac{1}{4}$ of the price of common hinges made by the black-smith. 3d. It is impossible for it to swag or drag upon the ground, as common gates are apt to do, often requiring the strength of a man to open or carry them. 4th. It is as easily opened and shut as a house door. 5th. It will last much longer than common gates, say four times as long if well made and painted, as all gates should be which are exposed to the weather. One day's work by any plain carpenter will make one of these gates, and the castings may cost 25 to 37½ cents. I furnished my own patterns, and they weighed 5 lbs. There should be a collar or flange around the pivot to rest upon the top of the post.

I am, dear sir, very obediently yours,

J. MANN.

DEERFIELD, VA., April 21, 1856.

INFLUENZA OF HORSES.

CONTINUED FROM MAY NUMBER.

BY CAPTAIN RALSTON, GRAD. ROYL. VET. COLLEGE, AND MEMBER ROYL. COL. VET. SURGEONS, ETC.

YOUR correspondent is no murmurer at trivial "*faux pas*," accidental or not and be the same of "the press," an' so please you, Mr. Editor, or other grave stumbler; but he cannot refrain from a comment on his last article, as it appears in your pages of last month. Has its press-connection not been very lax? or is it that his own caligraphy has been of the shape and character of that of the old gentleman, an official of a Scotch bonding warehouse, who never could read his own hieroglyphics next day, and wont to testily answer, when asked for explanations of his endorsations of office-papers, "What come you to me for, eh? Sir, I am docket-writer an' no docket-reader." However, any one, even a corrector of "the press," may misapprehend a technical term; but still, it is somewhat of an irksome fact to be made, in a professional communication, to say "impinctival" for "conjunctival;" "imitative tinctures," for "irritative tinctures;" "tartarged antimony," for "tartarized antimony;" etc. Moreover, of constructive punctuation it might be objected that there were some little room for mending, on an occasion?

The previous observations, on (so-called) "influenza simplex," are proposed to be here followed up with some, on "influenza maligna;" but it must be admitted that in any attempt to do so are contained many elements of a "questio vexata," inasmuch that neither satisfactory data of fact or inference can be brought to bear upon this latter peculiar type of disease; one whose causes and effects, symptoms, indications, and terminations are each and all full of perplexity. Electrical phenomena, and deranged conditions of the atmosphere; nervous, infectious, and contagious complications, are all mixed up with considerations of it. And how much of real or reliable progress has medical science and investigation, as yet, made towards apprehending, or revealing, the mystery in which nature seems to have shrouded those first-named phenomena, whose relations to all vitality, whether animal or vegetable, in normal or abnormal states, are so all-pervading!

At the present time, influenza and its morbid coördinates appear to be cognate of extra claims to attention. Well nigh half of the population of Paris are said to have been suffering from quinzy, or some other form of influenzal malady; and in this country, as elsewhere, the prevalence this spring of affections of the air passages, and of neuralgic ails, has been of a very marked character. But here it is in relation to animals—more especially horses—these remarks are intended. It may, however, be passingly noted, that when epidemic sickness is produced by deranged atmospheric conditions, and which operate oftentimes inscrutably, that in the human subject fatality seems to be most apt to attend upon cases where the internal tissues and glands of the alimentary passages and abdominal organs sympathize and take on morbid action; while in animals, fatal results seem most to accompany the manner in which the membranous linings of the air-passages and cavities of the chest yield to diseased action.

Influenzal disorder, in various localities, as well as in various gradations, has been, and is now, a very formidable evil in many parts of this State, as in other regions. It is a class of malady which has proved a very devastating epidemic among horses and farm-stock, at frequently recurring intervals, in

all parts of the world. At the present time, its ravages and progress in Europe have been so serious, that the French and different other governments have taken alarm, and are directing scientific inquiry into its origin, and the adoption of veterinary measures of precaution and remedy. Does it not emphatically behoove that in this great agricultural and stock-raising country, timely forethought should be stirred up, and that this should lead to means for the introduction and diffusion of veterinary knowledge and skill, through the various states and districts? Adequate advice and precautionary measures depend wholly thereupon, and from no other source can rational remedies ever be derived in cases of disease, or information as to improved care and treatment of animals be ever expected to flow.

Influenza, in its various phases, may be epidemic or endemic; the former, when supervening in a very extended or general manner; and the latter, when peculiar locality seems more immediately to be the occasion. In its simpler form, of catarrhal cold, the proximate cause appears to be dry, searching weather or winds, attended by a good deal of mid-day sun. In its malignant character, does it present only an aggravated degree of the same complaint, or is it now especial in cause and effect? This is a direct and may be inferred to be a simple question, but it is not one to be either very well or directly answered. For himself, the writer has come to be forcibly of opinion that in influenza maligna are recognizable causes and effects that are both specific; that to produce it there is in operation, not only the aforesaid characteristics of weather, but some great alteration of the atmospheric constituents—perhaps their chemical decomposition—and that the air when inspired so, acts as a local irritant superficially, and as a poison when absorbed by the lungs. And he goes further, for not only does he believe in this specific action on the circulation, through absorption by the thoracic viscera, in animals, but also at times through the stomach and lining surfaces of the human alimentary canal; when the result will be deranged action of the bowels to correspond.

Of influenza as an endemic, proceeding from locality, an illustration not a little pointedly in place may be adduced. There is a rising hilly district, called "Gullane Links," (*links—Scottish; downs—Anglicè*) near Edinburgh. This spot is situated on the Frith of Forth, an inlet of the German Ocean, into which the river Forth debouches; and a more delightful, breezy summer "locale," for an exhilarating gallop, than is presented by the short, grassy, elastic turf of its slopes, cannot well be imagined; while the fertile, highly cultivated Lothians (the midland counties of the lowlands of Scotland) on three sides, with the fresh, rolling ocean-billows combing and sparkling on the other—and six or seven miles across, the shores of Fife, Stirling, etc., (as it were a fine landscape picture,) and having beyond all the range of the Grampians, so suggestive of the Highlands and the old clan-times—the whole, with the throned capital, its castle, spires, and hills in the view, combine no common scene:

"Edina! Scotia's darling seat!
Behold her Palaces and Towers;
Where *once* beneath a Monarch's feet,
Sat legislation's Sovereign Powers!"

If this be a digression little in keeping with the present thesis otherwise, *memories*, as best they may, must even be its plea! The capital upland levels, however, of Gullane Links, for condition-exercise and finishing well with race-horses, at one time rendered this a very popular training quarter, where were several public stables. Few or no horses go there now, however, because the place being open to that coast of Scotland where cold dry spring

weather, along with north-easterly winds, is apt to prevail, for a few days at a time, and this often with bright April and May sun, it was found that the horses, particularly the two and three year olds, were very prone to influenzal attacks—or distemper, in racing parlance; and which, in some seasons, swept through the stables. Here, then, this disorder was evidently endemical. It usually yielded to judicious treatment; the most intractable symptom being tumefaction of the parotid and sub maxillary glands, sometimes so great as to alarmingly impede respiration. The writer can recall the case of "Highlander," a valuable plate horse, of Lord Fyfe's, who died of suffocation from this cause; a fatal termination, however, which ought not to have resulted, if any competent veterinarian had been at hand, as tracheotomy would have yielded instant relief to this symptom.

Having used the term of "finishing well," perhaps it may be only pertinent to explain, that being able to finish well means, in racing phraseology, that a horse's powers admit of his being extended or pushed at the end of a heat, or a race, without winding or distressing him; and, in training, a place for finishing well is a gentle ascent at the end of a line of gallop, where either an individual horse, or "a string," can be "hustled up," under the observant eye of the trainer, who judges of clearer wind and improving condition, from a better or more persevering style of "finishing," whether in a usual morning gallop, or "a trial," as the case may be. Again, as to the phrase "plate-horse;" it is a British one, which means that a race-horse of four years old and above, is in training to run for those royal plates, or cups, of 100 guineas, given annually by Government, at various courses in England, Scotland, and Ireland. The public object is the improvement of the national or general breeds, by hereby contributing to foster the raising of turf or thorough-bred horses, of substance and fine form, and possessed of powers to contest the palm in four mile heat-races, under very high weights; six years old and all aged horses carrying twelve stone, or 168 lbs. These horses, after being withdrawn from the turf, become the stud horses of the agricultural districts. Local racing associations and clubs likewise subscribe gold and silver cups and pieces of plate, in order to be given in a similar manner and view; but the distances more usually run in these instances are two miles.

That influenza maligna is a specific result of unbalanced, or abnormal, atmospheric conditions, is more easy to assume than to prove; but that it is so, has long been a conviction of the writer, however vague or speculative his reasoning, or feeble his attempt to convey his own impressions, may read. The morbid influences which he supposes to preside are intrinsic, as regards the aeriform medium we inspire and have our being in. Decomposition of animal and vegetable matters; neglect of drainage and the proper scavenging of cities; the hospital or lazaretto; the pent-up and impure surroundings of the poor or the ignorant—these and other sources may taint the air, or the spot, so that the former being breathed, or the latter touched, putrid fever, or disease of some distinctive type, low or typhoid, or more actively malignant, may be the consequence; and here is conveyed the ordinary ideas of infection and contagion; and no doubt correctly so, in so far. But that plague or Asiatic cholera, in the human subject, malignant influenza of horses, or murrain of cattle, are infectious or contagious, in the same sense, the writer is skeptical.

Irrespective, or short of such excess of aforesaid malarious agents as were capable of engendering positive disease, there yet may be other or lesser degrees of malarific agency, such as would go only the length of impairing constitutional stamina, in a manner to predispose the individual to yield under some sickly influence, which otherwise might have passed him by. Is it

not, then, in this way epidemical, as well as other sicknesses assault some, while others escape, or that plague and cholera have seemed often to select their victims? The writer was serving as an officer of cavalry, in cantonments at Arcot, in the Southern Peninsula of British Asia, when cholera broke out, and the mortality proved terrific. The farriers and bandsmen of one of the regiments, the 13th Light Dragoons, were cut off in a very disproportionate degree, as compared with any other of the rank and file of the corps; and this undoubtedly was from the fact that these men had money to spend more freely (obtained from permitted private services, rendered out of duty hours), and were mostly intemperate. Still, the proximate cause of the disease, in all cases, was the same; and assuredly that cause was a peculiar condition of the atmosphere, which might be properly termed malarious, not from palpable agents extrinsic of itself, but from its own constituents being in an altered state, which it is ventured to here predicate might be one of malarific decomposition. This idea, or theory, is one the writer has not known to be broached by other observers; but no other inference seems to account for the phenomena of malignant cholera or certain other epidemics. He does not aim at confident assertion in his premises, or to offer strictly inductive proofs; but he was a very young officer when he witnessed the terrible scene of havoc from true Cholera at Arcot, and noted its singular and fearful march from thence around the globe, as may be said. During four or five years after, up to 1834 or later, it moved from east to west, as a kind of erratic zone or belt of unseen and death-striking miasma, carrying the first dire alarm of Asiatic Cholera to the continents of Europe and America. From this, and his after-studies in veterinary medicine, and opportunities to watch the onset, progress, and decline of epidemics, at various times, among the horses of several regiments of cavalry in his veterinary charge, have all concurred not only to imbue with these strong impressions, but forcibly to vest them in present opinions.

It may be not undue to superadd, that there may be states of the air, arising out of miasmatic impregnations, the combined product of heat, moisture, and decaying-vegetation, or pent-up impurities, whose effects resemble those assumed from the origin aforesaid. In such kind of contamination may even be the exciting cause—the yeast that starts the fermentation of those atmospheric conditions, the visitations of which are displayed in virulent or wide-spread epidemics. Such miasms, themselves, may give direct rise to specific fevers—as the jungle-fever of India, or the yellow-fever of the West Indies, or cholera-morbus, etc.—but the plague and Asiatic Cholera in ourselves, the malignant influenza of horses, and its congener the murrain, or pleura-pneumonia of cattle, infer chemically altered conditions of the atmosphere itself, and in which that mysterious but everywhere and all-potent agent, electricity, plays no insubordinate part.

In the observations of your last month's journal, new or substituted ideas of "typhus," and "typhoid complicities," with malignant influenza, were demurred against, and it was maintained that it was better to hold to the old notions." But not only was it against the innovation, but because neither the sudden attack of the latter—the rapid and extraordinary prostration of all energy—the disorganized secretions—nor the tabid state, which lingers on to death in from five to fifteen days, seem to correspond to usual ideas of typhus. The want of coherence of the blood and the escape of the serous part, through the bowels in human Asiatic Cholera, and the tendency to the same thing into the cavity of the chest of horses and cattle, in influenza and pleura-pneumonia, are facts to be noticed; as are also the peculiar

vesicular affection of the mouth and hoofs of cattle, which attends the latter affection.

But, in horses, what really is the disease, then, which is treated of? The reply continues to be vague; and must be accepted in connection with the foregoing premises. It is not pleuritis, and it is not pneumonia, and yet partakes of affinities to both. The indications are rapid, yet sub-acute, contradictory, and bewildering. The veterinarian of true skill is baffled, and acknowledges it; and pauses, in doubt how to act where the symptoms are at once so indeterminate and conflicting. The two safe points to take up are—*First*, that all due measures of prevention on the part of horse owners and raisers should be adopted. When the atmosphere is electrically disturbed, and the weather dry, and the wind cold, as is so often the case in spring and fall, every careful precaution should be taken. In these states of weather, whether it be aeriform malaria or no, still every one may have observed in his own case how flaws of wind will create neuralgic aches, or some exposure bring on influenzal symptoms. Stabled horses should never stand in flaws of such wind, and in such weather should never be exposed while warm, or after sweating. Stable currents of air should be guarded against, although ventilation ought ever to be carefully studied. Horses that are in the fields, or depasturing, should at once be sheltered against the direction of the wind, in such states of weather. *Second*, that the onset or early stage of any attack, in such weather, should not be allowed to pass unobserved. It is only immediate measures of relief that are likely to repay owners at times of epidemics. If a horse be noticed with a slight deflection from the nasal membranes, or with a little cough, or degree of tenderness of throat, or any dryness or staring appearance of coat, let him be clothed more warmly; woolen leg-bandages be put on from the hoofs to the knees; a boiled barley or malt mash be given at night, with a dram of sugar and two drams of nitre in it; and let the drink be nitro-bran water. In the instance of the dry coat, should there be no soreness of throat, some blood-warm gruel, with a tumbler of sound ale, and two drams of ginger, in an ounce of honey stirred into it, may be given once a day for three or four days; or the stimulant treatment, generally, recommended in former article on influenza, may be had recourse to. But if the symptoms begin to appear more urgent, the head to be hung, the flanks to heave, etc., then instant professional assistance should be called in, if possible. Unfortunately, from the narrowed and neglected sphere of the veterinary art in this country, there are very few places where competent assistance can be obtained. In this case, owners, farmers, and others had better either trust to their own intelligence, or the "*vis naturæ*," rather than resort to those who are often as bold and dangerous in their hap-hazard remedies, as they are ignorant of all physiological or pathological truths. The blacksmith may mean well, or fancy he can be of some medical service, and, if he is consulted and relied on, there is no wonder that he should act. If he declined, then he was far above ignorance; for he had learned to curb the proneness to human vanity and a natural sense of self-interest. But that the educated and intelligent should yield to the delusion that because a man is familiar with horses, or forges, and nails on their shoes, he must, necessarily, have become pregnant with veterinary knowledge and its scientific attainments, is indeed surprising. This would truly be the "*afflatus*" divine, not of poetry, but of medicine; and if it correspondingly caught cobblers, they would be the best of physicians! The writer advises the horse owner to either trust to nature, or inquire and prescribe himself, if an educated veterinarian is not to be had;

and this without any failure of right and just respect to his horse-shoer, who may very properly be employed to bleed, or give a bolus, under his directions, should himself, or no one in his immediate employ be able to do so. In the very early stage of an influenzal attack, bleeding may do good, but only then. Horses are very soon unable to stand up against venesection in this malady; cattle still sooner and less able. What is now said as to treatment does not differ much from the observations in the preceding article. Whenever mucous discharge has come on, sedatives must be substituted for any attempts to take away blood, in a view to endeavor to reduce and regulate the hectic action of the heart and arterial system. From four to six doses of tartarized antimony, calomel, and opium may be given—say $\frac{1}{2}$ a dram of each, made into a bolus with liquorice-root powder and treacle; two doses a day. Or $\frac{1}{2}$ dram doses of digitalis may be alternately substituted. Counter-irritation should not be delayed, viz.: Trim the hair closely off along both lower sides of and under the throat, and for eight or ten inches broad on each side of the chest, behind the elbows; then soak all the trimmed space for a minute or so with large flannels, wrung in hot water; and immediately thereon rub in 2 ounces of blistering ointment. Nitrate of potass, or purified saltpetre, is a valuable remedial agent in this complaint. A small portion may be dissolved in all the gruel or drink given, and in the water offered. A rowel, dressed and changed daily, with savine ointment, may be inserted in the breast. For cattle, two setons eight or ten inches long, through the dew-lap, is better. As regards food, any may be allowed the animal will touch, for the disinclination to eat is usually great. Linseed gruel, oatmeal gruel, malt mashes—these are best; and the recovering animal should be tempted with these, in small cleanly portions—a bite of fresh hay—a handful of oats, etc. Clysters of gruel are good, at once to assist in evacuating the bowels and sustaining the strength. When the more active febrile state has passed, stomachics and tonics are most useful. To those more homely recipes stated formerly, the following may be added:—Carbonate of ammonia, 1 dram; gentian powder, 1 dram; ginger powder, 1 dram, stirred into an ounce of honey, and then mixed with a quart of gruel: or sulphate of copper, 1 dram; ginger, 1 dram; liquorice—root powder—2 drams, and treacle enough to form a bolus. The draught may be given in the morning, and the bolus at night, for three or four days, and then daily, alternately, for a week or more.

But, in conclusion, the writer reiterates that the defence against this epidemic is precautionary measures first; and next, early attention to any attack, and prompt professional assistance, if to be obtained. He has known two stock-farmers, in the same locality, one of whom, on the atmospheric conditions indicated prevailing, along with a certain direction of wind, collected all his unhoused animals and sheltered them merely in his stock-yards, while the other used no precautions. The mortality among the latter's stock was ruinous; he lost more than one-half of his whole herd of cattle. The former escaped with an amount of casualties that were very light, in comparison.

JOHN C. RALSTON.

IMPROVED PIANO-FORTE.

THE INVENTION OF SPENCER B. DRIGGS, OF DETROIT.

THE private history of useful inventions, could it be known, would be found very curious. Their failure or success often depends on very trivial circumstances. Besides how many new ideas are conceived and partially formed, and even carefully studied, but, for want of complete development, are considered worthless, and are thrown away. That same idea is suggested, accidentally it may be, to some one who follows it out in the right direction, and it becomes a valuable estate.

It is but in the last week that we accidentally heard a tuner remark that the thick and heavy timbers which so abound in the piano-forte were of no use but to give it strength to resist the powerful tension of the strings. We knew this before, but at once we asked ourself the question, Then why not dispense with this cumbersome contrivance, and resort to an iron frame? The thought being but an incident, was laid aside, other matters demanding our attention. But lo! to-day we have seen that very idea most successfully carried out, and have proved its reality and its great value by the test of our own fingers and our own ears. It is not an hypothesis, or a probability. It is a demonstration.

Piano-fortes have heretofore been formed of cases, some two inches thick, over a large part of the sides, while the bottom and the interior is some six inches thick, filled up with blocks of wood for braces. The whole forms a heavy, almost immovable mass of timber, on which the wires are strung, while a thin sounding-board alone gives musical effect to their vibrations.

In this instrument, the invention of Mr. Driggs, the case is only half an inch in thickness, while the bottom is a single veneer, an eighth of an inch in thickness. This is made stiff or firm and sonorous by being pressed into an iron frame of dimensions not quite so large as those of the wood, thus securing to it a concave form, like the back of a violin. This extends the entire length of the instrument.

The sound-board differs from the old form, chiefly in its braces and fastenings. The strings ride upon metallic saddles, fastened to the sounding-board, and have a clear, direct, and uninterrupted vibration from end to end.

The effect of these changes is a great increase in the volume of sound, particularly in the lower octaves, and a long-continued vibration in the entire series, so that even the higher strings emit a prolonged note. The character of the tone is improved in richness, and it has increased brilliancy without a wiry twang. It is a pure musical utterance, unadulterated with conflicting vibrations, and unimpeded by blocks of pine wood.

The firmness and fixedness required to resist the powerful tension of the strings (which amounts to some tons' weight), is obtained by the use of an iron frame forming a sort of skeleton box, of suitable dimensions, with cross bars judiciously arranged and slightly arched where there is the greatest danger of its yielding.

Messrs. Mason, Strakosh, Gottschalk, and other eminent professors, we are informed, have pronounced it a complete success. In fact we have seen a written statement to this effect, signed by the gentlemen above named. Mr. Driggs is about to establish a manufactory in this city. The instrument we tested is the only one, we believe, he has finished.

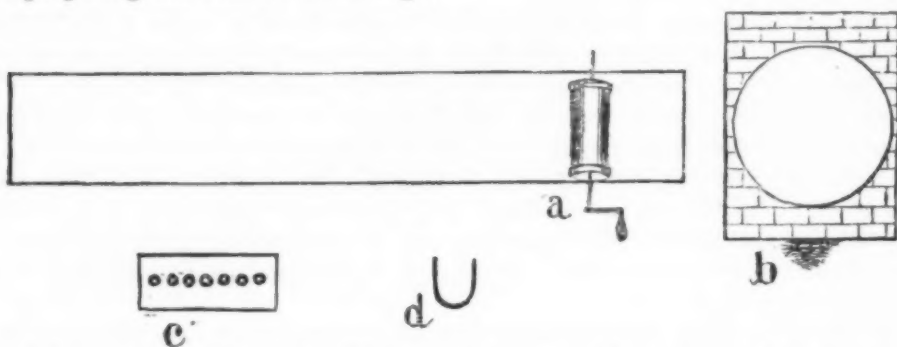
FOR THE PLOUGH, THE LOOM AND ANVIL.

WAX BLEACHING.

BY SAMUEL G. OLMSTEAD.

At Siena, Italy, I visited a *Ceraiuola*, an establishment for bleaching wax. The following is the process:

Twelve hundred pounds of beeswax is put into a large copper kettle and melted. The following rough sketch will show the order of the apparatus for preparing the wax for bleaching:



A is a cylinder of wood, solid, about $\frac{1}{3}$ immersed in water. *C* is a bottom view of a tin vessel, into which the melted wax is poured. The holes represented by the dots are small. This is placed over the center of the cylinder *a*. *D* is an end view of the same. The fire is applied to the kettle at *b*. The melted wax is dipped out of the kettle into the tin vessel *c*. The cylinder is turned about as fast as a grindstone is ordinarily turned. The melted wax falls in fine streams about the size of small knitting-needles upon this wet cylinder. As it turns a thin ribbon of wax is formed, between $\frac{1}{4}$ to $\frac{1}{2}$ an inch wide, which floats on the surface of the water. The wheel is turned towards the kettle which produces a current towards the other end of the vat. One man dips out the wax into the tin vessel which is over the cylinder. Another turns the cylinder. A third, with a shovel made of willow twigs, dips out the wax, which is in thin ribbons, into large trays made with willow-twigs bottoms, and two men carry it out into the yard, where there are four tables, placed side by side, each 10 feet wide, 60 long, and $2\frac{1}{2}$ high, with tops made of reeds, over which is stretched a coarse canvas cover—upon this the wax is spread. In handling the wax, spreading it, &c., it breaks up into short pieces. Two of these tables hold 1200 pounds, of 12 ounces to the pound. It is spread on the canvas about $1\frac{1}{2}$ inches thick. As it lays up lightly and loosely, the light of the sun penetrates to the bottom. They melt the wax over and make it into thin ribbons in the above manner twice during the process of bleaching. The process occupies thirty days. It is exposed to rain, &c. They prefer to have rain, because, when the sun is very hot, they are obliged to sprinkle water upon the wax to keep it from melting and running together. In this way it is bleached as white as snow.

Any housewife, with a simple apparatus, which she may get up herself, can easily try the experiment on a small scale, and bleach what she may wish to use in candles or for sale.

Immense quantities of wax candles are burned here in the churches, as every Sunday is a feast day, and almost every day in the week. There is no worship of the gods here except with, in, through or by means of wax. Different colored wax is used on different occasions. On some days the yellow, unbleached wax is used. Sometimes colored wax. This is a very economical arrangement, inasmuch as there is no loss of wax. That which becomes soiled, so that it is not a perfect white, is then colored. A church orders from one of these establishments what they require of various sizes, &c. They burn what they need, and the rest is returned and deducted from what they took. They thus pay for the deficit. Only a few inches of a candle which is five feet long are burned. There are five of these large wax establishments in Siena.

The large candles are made by suspending the wicks and pouring the wax over them. They are made round and very true by rolling them under a plank on a table. They are colored by putting in chrome, Prussian blue, &c. They are then hung up in the sun for a time to harden. They make some candles four or five inches in diameter and five feet long. Wax unbleached is worth 3 Pauls, or about 30 cents, bleached, 40 cents for a pound of twelve ounces.

STEAM FIRE ENGINES.

On the 6th instant a trial of Steam Fire Engines took place in the City Hall Park, pursuant to a call of the Common Council of this city, to compete for the following premiums, to wit:

For the best \$500. For the second best \$300. For the third best \$200. The call was answered by the appearance of two full-sized and one small working model; represented as follows:—First a full-sized machine with Cary's Patent Rotary Force Pump by Messrs. Lee & Larnerd, of this city. Second, a full-sized machine, by W. C. & J. S. Burnham. Third, a small model by James Smith. "A mere toy."

At 10½ o'clock A. M. the fires were lighted in the furnaces of the respective engines, and for a short period a dense smoke told conclusively that the war had actually begun. In twelve minutes from the lighting of the fires, Smith's boiler (which by the way we understand had been previously fired up, and fire withdrawn, and came on to the ground with the boiler so hot that the hand could not remain upon it without a very unpleasant sensation), showed steam up sufficient to blow off. Burnham succeeded in making some demonstration, by raising his safety valve to indicate that steam was up, but not until twenty-two minutes had elapsed, and the steam was not then sufficient to throw a 5-8 stream over 80 feet. He finally succeeded in reaching about a hundred feet with steam, which indicated fifty pounds, but understood to have been something over a hundred.

Messrs. Lee & Larnerd's engine was ready to work with a pressure of 80 pounds in eight minutes, and in twelve minutes was blowing off at 120 lbs.

At this juncture, all three machines were fairly at work, and only one machine (Lee & Larnerd's) seemed to do the work required of a Steam Fire Engine. Burnham's machine labored under a very troublesome difficulty of keeping up a sufficient head of steam, having adopted the old-fashioned,

upright, tubular boiler, which, with the dimensions he has brought forward, seemed entirely inadequate to produce the desideratum of communicating the amount of power required to project water to any great distance—having, as we are informed, but 125 feet of fire surface to supply cylinders 9 inches in diameter by 7 3/4 stroke.

The difficulty of getting a sufficient supply of steam from a boiler of such weight and dimensions, with the requisite machinery to complete a Steam Fire Engine, seemed to us to be one of the principal objections that might be urged against their practical utility and efficiency. We understood that Mr. Larned, the inventor of the boiler, used in Lee & Larned's engine, has devoted a year or more upon this particular and highly-essential point; and, from a careful and critical examination of the construction of his boiler, we are convinced he has obtained a very great desideratum, in so combining the tubes as to produce the greatest amount of heating and fire surface with the least possible weight, and at the same time, by his ingenious arrangements of passing the small tubes through the steam drum, which render such efficient aid in staying the circular and vertical plates, has precluded the possibility of an explosion. This is a point of great practical importance.

The Committee had provided three lengths of hose, attached to the Croton, to supply water for the cisterns, which received the suctions of the different engines. This supply proved to be insufficient even for Lee & Larned's engine alone, for any length of time when working up to her ordinary capacity and throwing two streams, through 100 feet of hose each, with nozzles 1 1/8 inch in diameter, to the surprising distance of 185 feet.

Some weeks since this engine was tried in the Park for three successive days, and produced most satisfactory results, continuing its operations from four to seven hours each day, and at times discharging from 500 to 600 gallons per minute, throwing it through 50 feet of hose, and a nozzle 1 1/2 inch in diameter 190 feet. To more thoroughly test its projectile powers, a line of hose was stretched from the hydrant near the fountain to the roof of the City Hall, a distance of nearly 700 feet, and there was no hose produced that could withstand the pressure, as a number of outsiders, who were in close proximity, could testify to from a practical experience.

We have been somewhat particular to ascertain the respective merits of Steam Fire Engines, as they have been exhibited from time to time, and in none do we find as many good points as in Lee & Larned's engine.

We think there can be no further cavil as to the entire practicability of this machine, and would recommend that all cities adopt it at once. We have recently learned that the city of Cincinnati has seven steam fire engines, on which she exclusively relies as a defence against fires.

COMPOSITION AND FORMATION OF STEEL.

At a recent meeting of the Boston Society of Natural History, Dr. Jackson gave an account of some researches into the composition and manner of formation of different kinds of steel. As commonly known, steel is a combination of carbon and iron, made by heating flat bars of pure iron in combination with charcoal. The carbon is first converted into oxide of carbon, and then unites with the iron as carburent. The result of this process is known as blistered steel, from the bubbles generated by gases upon its

surface. Shear steel consists of parallel plates of pure iron and steel welded by folding, and uniting the bars of blistered steel. Cast steel is fused in pots of the most refractory material, and differs from cast iron, which likewise contains carbon, in this respect, that cast iron is a mixture of coarsely-aggregated matters, graphite and iron, whilst cast steel is a chemical combination of carbon and iron.

From the researches of Berthier, it is known that manganese will form an alloy with iron. When iron is mingled with a considerable proportion of manganese, a brittle compound results; but when combined with a very small proportion of manganese, a steel of very fine quality is obtained, which has the advantage over carbon steel; carbon steel becomes coarse when tempered in thick masses, from segregation of the particles of carbon; but no such troubles arise with manganesian steel. Parties in England have lately introduced excellent wire for piano-forte strings, made of this kind of steel, as well as for cutting instruments and other purposes. In the wire, Dr. Jackson has found $1\frac{1}{2}$ per cent. of manganese, and has established the fact that it resists, to a very remarkable degree, the action of hydrochloric acid. Sixteen years since, Franklinite iron was manufactured by Mr. Osborn into very hard and fine steel. This steel required tempering at a lower heat than carbon steel. Many of our manganesian irons might be manufactured into steel by the simple process of fusion, and a steel of uniform character might be made without previous cementation with carbon.—*Boston Natural Historical Society.*

MARBLE, AND MARBLE SAWING.

MESSRS. EDITORS:—Something more than six months since it was made known, through your columns, that an invention was needed for sawing tapering forms of marble. You accompanied that notice with editorial remarks, in which you prophesied that the required machine would be produced, and encouraged inventors to undertake the work.

Your expectations have been met. Sixteen patents have already been granted for machines of the character proposed, and several of these are now doing satisfactory work. In a short time a number more will be added to the list. With so many earnest, practical minds directed to a point a failure was impossible. This competition, unparalleled in point of success, has had, and must continue to have, the effect greatly to diminish the commercial value of each patent from the price it might have commanded standing alone. As no one or two of these machines can enjoy anything like a monopoly of the public confidence or of actual merit, they will at once be introduced into general use. What the patent right of a machine of exclusive excellence would have been worth may be guessed from the fact that several discriminating inventors, when they had satisfied themselves of their success in the production of a good machine, refused the \$10,000 offered, and one of them sold the right of a single machine to one of the largest marble manufacturers in Vermont for \$1000. An ordinary gang of saws is worth \$1000 per annum, but this invention, by doubling its efficacy, makes it pay for itself the first year. The aggregate value of this invention must be very imperfectly understood by those who are ignorant of the present extent of the marble

business in this country, of the present rate of development, and of its capacity for unlimited expansion. The business is yet in its infancy, although it has increased more than a hundred fold in ten years. I have no hesitancy in saying that the entire marble interest in Vermont is now valued by its owners, at not less than \$15,000,000! Here is found marble of almost every hue, from the ebony black to the snowy white, and varying nearly as wide in texture. Sudbury, Brandon, and Middlebury have statuary marble equal to the best Italian, as the busts of our native sculptor, Kinney, testify. Roxbury has an inexhaustible supply of the *Verde Antique*, so identical in composition and appearance with that hitherto obtained from ancient ruins, that the best judges have mistaken the one for the other. Although these quarries have been opened but a couple of years, this new stone has already made its way into the new capitol at Washington, and into the parlors of the rich in New-York and Paris. The committee for the erection of the Benjamin Franklin monument in Boston, adopted it for that purpose after subjecting it to the severest tests of heat, cold, and pressure. The "Vermont Italian" quarry of Dorset, presents a bold front on the side of the mountain, half a mile long by one hundred and fifty feet high, and of a breadth which ages cannot exhaust. Rutland alone turns out half a million dollars worth a year.

And yet this formation which extends the entire length of Vermont, runs also through Berkshire County, Massachusetts, through western Connecticut, and, I believe, into New-Jersey. And probably the marble interests above briefly alluded to, are not a moiety of those which exist in the country.

No sane person, with these facts before him, will say that an improvement which at once does away with one-half of the expense of an important branch of the business is not of great value, and no reasonable person will charge mercenary motives upon those who were instrumental in the production of those improvements. Some inventors, who in their too great haste, seized upon the first idea that presented itself, instead of carefully and experimentally feeling their way to the truth, have made failures; and now finding themselves minus a trifling sum of money for patent fees and models, seem to forget that some waste of property and life always attends a great victory.

There is yet ample room in the marble business for the exercise of the inventive faculty; some important improvements are yet needed.

M. M. MANLY, in *Scientific American*.

ENAMELS.

ENAMEL is a variety of glass, usually opaque and colored. It is formed by the combination of different metallic oxydes, with the addition of fusible salts, such as borates, fluates, and phosphates.

The art of enameling has been practised for ages, and the ancients carried it to a high degree of perfection. Specimens of their work yet remain, the composition of which and manner of applying are not now known. It was certainly practised by the Egyptians; and also by the Etruscans, from the time of Porsenna, 600 years before Christ. After remaining almost dormant for centuries, the art was again revived in Italy, in the time of Julius II. At the present time, the Venetians, possess the best processes of enameling, and supply most of the other nations with enamel of every variety of color.

Enamels are divided into two distinct classes, namely, transparent and opaque. In the former, all the elements that compose it are subject to an equal degree of liquefaction, and are thus converted into crystal glass. In the other, some of the elements resist the action of heat in such a manner that their particles retain sufficient aggregation to prevent the free transmission of light.

Enamels of all kinds and colors are produced by different combinations and processes; such as yellow, green, blue, red, violet, &c. The simplest enamel, and the one that serves as the basis of most of the others, is obtained first by calcining a mixture of tin and lead, in proportions varying from fifteen to fifty parts tin to one hundred of lead. This alloy has such an affinity for oxygen, that it may be calcined in a flat cast-iron pot, and at a temperature not above a cherry-red heat, provided there is not too much tin in the composition. As the oxyde is generated, it is drawn off to the sides of the metal, new pieces of the composition being thrown in, from time to time, till enough of the powder is obtained. When the powder is sufficiently cold, it is ground in a mill, levigated with water, and elutriated. After these processes, it is mixed with silicious sand and alkaline matter, or sea salt. It is then put into a crucible, or laid on a stratum of sand, quicklime, or wood ashes, and placed in a pottery kiln. It then undergoes a semi-vitrification. This serves as a basis of almost every enamel; and by varying the proportions of the different simples, different kinds are obtained.

Enamel painting has been carried to a high degree of perfection. The colors used are prepared from oxydes of different metals, melted with some vitrescent mixture, laid on with a fine brush, the medium being oil of spike, or some other essential oil. It requires the utmost skill in using these mixtures, as they do not produce the coloring till after the article has been subjected to the process of firing.

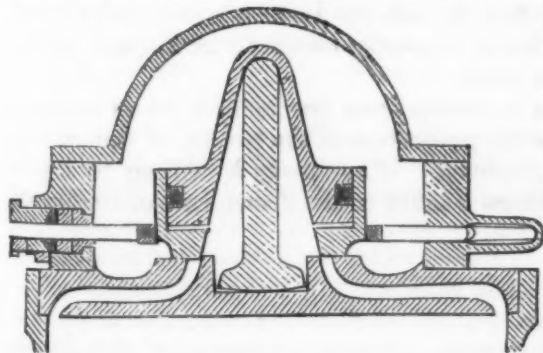
Various processes have been discovered for enameling leather, and different metals, such as iron and copper. Cast-iron vessels are enameled so that the enamel will not crack upon being subjected to heat.—*Pen and Lever.*

IMPROVED MEANS OF RELIEVING SLIDE VALVES FROM PRESSURE.

INVENTED BY J. K. FISHER.

THE novelty in this plan consists in the means by which the piston in the back of the valve is supported and carried. In order to explain this clearly we

first describe the means heretofore used for this purpose



The piston has sometimes been in the cover of the steam-chest. But if the valve is ever lifted from its seat, as it may be in a locomotive, a piston in the cover will be forced outward, and held so that the valve cannot fall back to its seat when the pressure beneath it ceases; this method is, therefore clearly

inadmissible in locomotives.

When the piston is in the back of the valve, there is a link or hanger con-

nected to it, and also to the steam-chest cover. If this hanger were indefinitely long, it might not sensibly affect the action of the piston; but as it is impracticable to give it much length there is always this difficulty—that, as the lower end of the hanger moves in a curve, the piston slides up and down in the cylindrical cavity of the valve; and as the direction of the hanger is oblique when the valve is not in the middle of its travel, it strains towards the center, pressing the piston alternately against the forward and back halves of the cylindrical cavity; thus rendering it liable to considerable wear, as the sliding motion takes place.

To remedy this, Mr. Fisher places under the piston a sector of a wheel, which rolls upon a planed way in the exhaust passage. The cut shows the arrangement. In the back of the piston there is a sort of hollow steeple, to allow room for a sector or rocker of long radius, so that the friction and wear may be slight. And to accomodate this steeple there is a dome in the steam-chest cover. The piston may have packing of a very simple kind, as there will be so little wear that no provision for it need be made; and it may be ground in with emery.

It is obvious that this sector will carry the piston in a straight line; and there will be no slide of the piston in its cylinder, except when the valve is lifted; and that the piston will not be pressed against either side of its cylinder, except with the slight force due to the friction at the axis, and the rolling resistance at the rim or foot of the rocker. Hence, if the packing be well fitted at first, there will be no danger of its becoming leaky, or unsteady from wear.

The advantages of relieving the valve from the pressure on its back are considerable. First, power may be saved. A writer in the *London Artizan*, a few years ago, showed that, if the co-efficient of friction be taken at 2, which is the usual estimate where oil cannot be kept in its place, the motion of the valves of a first-class locomotive of 750 horse power, would consume 35 horses' power, or more than 4.6 per cent. of the effective power of the engine. Now as .85 of the pressure may be thrown upon the piston, we may, after due allowance for friction of the rocker, assume that .8 of this power can be saved, and therefore that the power to work the valves may be reduced to a fifth of what is under full pressure; or, 7 horse power, less than 1 per cent. will suffice. Second, the exhaust passage may be made much wider, which will allow freer egress to the steam and relieve the piston from a part of the back-pressure. Third, the steam ways between the ports and cylinder may be shortened, so that less steam will be lost in them. Fourth, the valve gear, by being relieved from eight-tenths of its strain, will suffer less wear, and be more easily handled, and keep in better order; and it may be made lighter and less expensive. Fifth, the liability to strain the parts by compression when reversing, or if water is in the cylinder, is greatly reduced; as the area of the valve minus the area of the steam ports.

The object of publishing this is to induce some one to try it, on an engine; on condition that he shall have a fair proportion of the patent, if the device works well, and a patent can be obtained. If any party is willing to try it on such terms, he is invited to address a letter to Mr. Fisher, care of *Colburn's Railroad Advocate*.

Miscellaneous.

MUSICAL INSTRUMENTS FOR CHURCHES.—Messrs. Mason & Hamlin, of Boston, have invented and are now manufacturing a Reed Instrument on the principle of the Melodeon, with great and important additions and improvements. It is called the Organ-Harmonium, and has the power and variety of a pipe-organ of double its cost, and contains two manuals and eight stops, as follows: Dulciana, Diapason; Hautboy, Bourdon, Flute, Principal, Expression, and Coupler. Musicians and organists who have seen and heard this instrument, express themselves not only pleased, but surprised at its power and variety of tone and effectiveness.

The chief object in the construction of this instrument seems to have been to produce an instrument adapted to the use of the many religious societies, whose means will not allow of the purchase of an expensive organ. Messrs. M. & H. think they have succeeded in making an instrument which combines all of the desirable qualities of a pipe organ that costs \$700 or \$800, besides many others not to be found in an organ of that price. The effect produced from its full chorus is almost precisely similar in a small or medium-sized church to the effect of the full chorus of a large-sized church-organ in a large church; the volume of tone being massive, full, round, well-balanced and church-like. It has two great advantages over the ordinary pipe-organs, which are especially a desideratum in country towns and villages. One of these is its property of remaining for many years in good tune, and the other is the much-lessened liability of getting out of order. Having two rows of keys, it is capable of many beautiful solo effects, with subdued accompaniments, which renders it a valuable instrument. It is especially adapted for use in vestries and lecture-rooms. It is a beautiful musical instrument, with rose-wood case, fine finish, and a prompt utterance of tone—that is of a sweet, even, and pure quality.

COMMERCE WITH AFRICA.—It would seem that American merchants would do well to give their attention to commerce with Africa. In four years the exports of palm oil alone, to Great Britain, have increased about fifteen thousand tons, amounting last year to 30,000 tons total exportation to that country, value \$8,000,000. A steamer recently conveyed from Cape Coast Castle 8000 ounces of gold, equal to \$140,000. Other articles of African produce are also coming rapidly into favor and use in England and France. In the course of ten years there will be, beyond a doubt, a very large and highly lucrative commerce between the Republic of Liberia and the Kingdom of Great Britain.

THE CAMELS.—The United States store-ship *Supply*, Lieutenant Porter commanding, which was sent to the Mediterranean for a cargo of Camels for the use of the army, secured thirty-five of these animals, and had reached Kingston, Jamaica, on the 13th ult., on her way to Indianola, Texas. She has reached her destination before this.

The *Indianola Bulletin* of the 12th ult., says that the workmen are now busy in erecting an enclosure for the camels, which will cover ten acres of ground. It is proposed to keep the animals at that place several months to recruit them. Some of them were presented by the Viceroy of Egypt to our

Government, but most of them were procured by Major Wayne and Captain Porter, under the appropriation made for the purpose at the last session of Congress. Some Arabs accompany them to take care of them.

PRINCE'S PROTEAN PEN.—We are still in the constant use of this capital pen. As it is Princely in its origin and name, so it is princely in its relation to other pens, whether we regard the ingenuity displayed in its construction, its convenience, or its capacity. An improvement has been lately made, more particularly desirable, we should think in the larger sizes, by which the flow of ink may be regulated, and even entirely shut off. We have some experience in the use of this improvement, and we think it must add to the value of that which we before regarded as indispensable to all who are in the habit of writing.

NEW BOOKS.

THE ENGLISH BIBLE ; History of the Translation of the Holy Scriptures into the English Tongue, with specimens of the old English Versions. By MRS. H. C. CONANT, author of *Translations of Neander's Practical Commentaries*. New-York : Sheldon, Blakeman & Co., 1856. 404 pages, 12mo.

In this volume Mrs. Conant has set forth the many claims of the King James's Version to the confidence of the public, showing its antecedents, the conditions on which that translation was undertaken, the influences which operated in securing fidelity in the work, &c. In doing this, she traces the origin and history of the early English versions : Wickliffe's, Tyndale's, Coverdale's, Taverner's, Cranmer's, the Genevan, the Bishop's Bible, the Douay Bible, and the common version. She performs this service with great ability and fairness, and her conclusion is that King James's Version was translated under the most favorable circumstances, by the most profound scholars of the age, and in a manner to claim the confidence of all. It seems very singular that she should append a distinct and separate chapter to this complete historical examination, in which she assumes that the great scholars of the present day have or can shed such brilliant light over the sacred page, as to demand for it another new translation, that shall be up to the times. It seems to be "annexed" to the work after it was completed, after the manner of our politicians, without any due preparation. The conclusion of this one chapter is quite open to criticism. The body of the work is far too able to court the pen of any critic for any other service than the highest commendation.

A SYSTEM OF MORAL SCIENCE. By LAURENS P. HICKOCK, D.D., author of *Rational Psychology, Empirical Psychology, &c.*, Union College. New-York : Ivison & Phinney, 1856. 12mo., 418 pages. \$1 25.

THIS new firm composed of gentlemen, each well experienced in his trade, are doing a very great service to the public. Their issues are of the very highest order. Among these is the book, the title of which is here given. It is designed as a college text book. Its plan is comprehensive, the topics or sub-titles are wisely selected or classified, and concisely but ably treated, and in its progress it evolves a thorough, entire system of principles, which include the whole range of moral obligations.

A NEW METHOD OF LEARNING THE FRENCH LANGUAGE, &c. By LOUIS FASQUELLÉ, LL.D., Professor of Modern Languages in the University of Michigan. 27th edition. New-York : Ivison & Phinney, 1856. 499 pages, 12mo. \$1 25.

This course was first published, we think, in 1851, and the fact that it has already

reached its 27th edition is proof of its peculiar adaptation to the wants of the community. It is both analytic and synthetic in its modes of instruction, being formed on the plan of Woodbury's method, with German. It is designed to aid the scholar in reading and speaking and composing French. It is admirably adapted to these objects, and, indeed, it is the system now in extensive use in the best institutions of the country.

NAPOLEON. Par ALEXANDRE DUMAS. For the use of Colleges and Schools. New-York: Ivison & Phinney. 1856, 274 pages, 12mo. 75 cents.

THIS is one of the volumes of Fasquelle's French Course, and is published in a style highly creditable to the publishers. It is liberally furnished with notes and with references to the "new method" just described; so that the reader need be at no loss for the solution of any difficulties of idiom or of any *irregularity*, which he may encounter.

CHEFS-D'OUVRE DE JEAN RACINE. Prepared for the use of Colleges and Schools. By LOUIS FASQUELLE, LL.D. New-York: Ivison & Phinney. 1856. 320 pages, 12mo. 75 cents.

THIS volume also belongs in "the course" of the learned professor Fasquelle, and is a part of the "new method." The notes, explanations and references are similarly arranged to those of "Napoleon." The work itself is one of great interest, and contains the very gems of the French Drama, the compositions of one of the most popular and most able of all French writers, to wit, *Les Plaideurs*, *Andromaque*, *Iphigenie*, *Esther* and *Athalie*. The notes and references are very numerous.

TELEMAQUE, another volume of the series, was noticed in our journal when it was first published.

THE AMERICAN DEBATOR, being a plain exposition of the principles and practice of public debate. By JAMES N. McELIGOTT, LL.D. 3d Edition. New-York: Ivison & Phinney. 1856. 12mo., 312 pages.

THIS volume contains a thorough system of parliamentary law, of vital importance to every one who presides in a public meeting, and furnishes a great deal of valuable information, besides the laws which regulate all legislative or deliberative assemblies; it covers the entire subject of debate in all its aspects. It has reference to personal bearings, gestures, instruction, forms of address, styles, &c., &c. It is a thorough consideration of what might occupy large volumes. Numerous specimens are given in illustration of its teachings.

VASSALL MORTON, a novel. By FRANCIS PARKMAN, author of the history of the "Conspiracy of Pontiac" and "Prairie and Rocky Mountain Life." Boston: Phillips, Sampson & Co. 1856. 414 pages.

THIS book is written in a off-hand, animated style, and embodies a rather wild but very entertaining story.

FOREST AND SHORE, or Legends of the Pine Tree State. By CHARLES P. HALEY. Boston: J. P. Jewett & Co. 1856. 420 pages.

THIS entertaining volume comprises five separate stories, well-written, some of them chiefly historical, others only founded on fact. They will fill up an occasional hour of leisure with a very pleasant occupation.

THIRD ANNUAL REPORT OF THE SECRETARY OF THE MASSACHUSETTS BOARD OF AGRICULTURE, WITH REPORTS OF COMMITTEES, &c., &c. 2d Series. 1856.

WE have received this valuable report from the indefatigable Secretary, Mr. C. L. Flint. It is a valuable addition to the "permanent documents," which belong in every farmer's library. It is also got up in a superior style.

THE MECHANICS' MANUAL, a pocket companion, for working Carpenters, Joiners, Masons, Bricklayers, Painters, Glaziers, Builders, Slaters, Plasterers, Pavers, Planters, &c., with forty-two woodcut diagrams. By OLIVER BYRNE. New-York: J. N. Fairchild & Co. 1856. Price 50 cents.

THIS little work, in pocket-book form, contains 128 pages of useful cuts, tables, problems, &c., by a civil and military and mechanical engineer, and just suited to the wants of the classes described. It is remarkably well executed.

COLOMBA. By PROSPER MERIMEE. Translated from the French. Boston: Phillips, Sampson & Co. 1856, 12mo., 310 pages.

THIS translation of "one of the most brilliant of French writers," gives a most graphic, life-like illustration of life and manners in Corsica. The heroine is a most remarkable character, viewed as a conception of the author, and, if regarded as a historical sketch, the interest with which she is regarded is not diminished but materially strengthened. It is unlike any other tale we have ever perused, and, considered in either of the lights to which we have referred, the volume richly deserves an extensive sale.

BERENICE; a Novel. Boston: Phillips, Sampson & Co. 1856. 332 pages.

THIS story is in the form of an autobiography. The scenes which it describes, whether in the life of the heroine or of other persons, taken by themselves, are very naturally drawn, and the story abounds with incidents which greatly interest every reader. We are not certain, however, that all leave a good impression on the mind, nor even that some of them are not positively harmful in proportion to the ability displayed by the author. For a wife to be romantically "in love," as the phrase goes, with a stranger at first sight, however careful she may be of personal improprieties, is not likely to be commended or excused even, by readers of the stricter sort.

But the book lacks nothing in interest, in style is unexceptionable, and the work is executed in a manner worthy of the distinguished gentlemen who publish it.

THE NEW AGE OF GOLD; or, the Life and Adventures of Robert Dexter Romaine. Written by himself. Boston: Phillips, Sampson & Co. 1856. 403 pages.

WE have read this volume with unusual interest. The path is a new one. The plan is formed on no model that we have seen, although the author must have read Robinson Crusoe. It is not a rehash of that story, however. We fully agree with the publishers, that Alice is one of the most finished pictures of female excellence we have ever seen. Many of the scenes are novel, often deeply exciting the sympathies of the reader, though told in a marvellously quiet way. The note of the "publishers" at the close is, perhaps the *coolest* piece of fiction we have ever seen. They suppose that every reader will wish to know the final result of the hero's efforts in finding his lost island; and we certainly do. Please send us that "paper," gentlemen, as soon as it is off the press. The portrait we have entire confidence in.

WAY-SIDE SONGS. By Edward C. Goodwin, author of Hampton Heights. New-York: Mason Brothers. 1856. 185 pages.

MR. GOODWIN is an enthusiastic lover of nature, and has a quick perception of the peculiar traits of the scenes he looks upon. Nor is he deficient in the power of language. Some of his stanzas are exquisitely beautiful. This little volume does honor to his head and his heart, and the execution of it is highly creditable to the publishers. It is very handsomely printed, and is worthy a place in the list of gifts for the holidays. It consists chiefly of simple ballads, interspersed with some of the more stately forms of poetry.

THE EARNEST MAN ; or, the Character and Labors of Adoniram Judson. By Mrs. H. C. Conant. Boston: Phillips, Sampson & Co. 1856. 498 pages.

WE need only to announce the name of this distinguished lady to give the literary public an assurance of a scholarly and able performance. Dr. Judson is also too well known, and his position as the first missionary and a faithful and efficient laborer, was too important and too affecting, to be viewed with indifference. This volume cannot fail, therefore, to be read extensively and to be highly appreciated.

THE AMERICAN PULPIT ; Sketches and Biographical Description of living American Preachers. By Henry Fowler, Professor of Political Economy at the University of Rochester, with portraits on steel. New-York: J. M. Fairchild. 1850. 515 pages, price \$2 00.

THE selection of "Living Preachers" in the volume includes not a few of those who occupy a foremost place in the public mind. So far as we know the men, not one of them but is eminent for talent or for eloquence. Some of them as forensic orators are first even among the foremost. The peculiar views any of them may have on the topics of the day cannot affect this point. But as men whose names by this very peculiarity are so familiar to the whole country, the selection is peculiarly happy. The strong points of each are judiciously drawn by the author, and most of them are represented by a remarkably accurate portrait ; and we can vouch for all except one, Dr. Sommers, whose face we have never seen. Portraits are given of Dr. E. N. Kirk, Dr. O. Baird, Revs. W. H. Milburne and H. W. Beecher, Dr. Sommers, Dr. T. L. Cuyler, Dr. S. H. Cox, Dr. S. H. Tyng, and Rev. Albert Barnes.

The friends of each of these gentlemen will not be disposed to say that the sketches are not judiciously and skilfully drawn. Twenty-one sketches are given, so that each, of necessity, is short.

A SHORTER COURSE WITH THE GERMAN LANGUAGE By W. H. Woodbury, author of, &c. 6th edition. New-York: Ivison & Phinney. 1856, 230 pages.

THIS admirable work is on the same plan as the larger one, published in 1848, and which is the book now in extensive use in this country. It has no rival in the market.

NEW MUSIC.

WM. HALL & SON have recently issued the Minnehaha Polka. By Francis H. Brown. Very brilliant and very pretty.

Six Nocturnes. No. 1. By Wm. Vincent Wallace. Worthy of the eminent author, and capital study for the pupil.

The Banjo. By L. M. Gottschalk. A grotesque fantasia, which pays well the time required to manage it, and is a very popular piece.

List of Patents Issued

FROM TERMINATION OF PREVIOUS LIST TO MAY 6.

- Andrew Allen, Wilmington, Del., improvement in power looms.
- Edwin Allen, Glastonburg, Conn., improvement in calendar clocks.
- J. A. Ayres, Hartford, improved machine by which cattle raise water for themselves.
- Andrew J. Barnhart, Hartfield, N. Y., improvement in securing and releasing blocks of lasts.
- Wm. W. Binney, Seneca Falls, improvement in coal stoves.
- Henry E. Canfield, New-York, improved arrangement of means for operating cut-off valves of steam engines.
- Jacob Cohen, New-York, improvement in the arrangement of grates and dampers for chimneys.
- J. B. Creighton, Tiffin, Ohio, improved stump extractor.
- Levi Cromwell, Baltimore, improvement in omnibus register.
- Abram J. Gibson, Clinton, Mass., improvement in attaching thills and poles to vehicles.
- Abel H. Grennell, Springfield, Vt., improvement in mode of protecting vines.
- Samuel E. Hartwell, New-York, improvement in frames for mosquito nets.
- Wm. B. Hatch, Elmira, improvement in straining marble saws.
- Nathaniel Hayward, Colchester, Ct., improvement in manufacture of India rubber.
- J. E. Haviland, Galveston, improvement in machine for sawing marble in obelisk form.
- Jonathan J. Hilliard, of Fall River, improvement in spreading rollers for stretch cloth.
- William Hinman, Elkart, Ind., improvement in bedstead fastenings.
- William H. Hovey, Springfield, Mass., improvement in grain and grass harvesters.
- John Jones, Brooklyn, improvement in candle cutting apparatus.
- Simeon Ingersoll, Green Point, N. Y., improvement in hay and cotton presses.
- Charles Kirchoff, New-York, improvement in electric telegraph.
- James Kline, jr., and Simon V. Kline, Chicago, improvement in safety platforms between railroad cars.
- George W. La Baw, Jersey City, improvement in hoisting drums.
- Palmer Lancaster, Burr Oak, Mich., improvement in fire-arms.
- Marshall Lefferts, New-York, improvement in metallic bedsteads.
- Wm. H. Lyman, Newark, improvement in whip sockets.
- Wm. Loyd, Philadelphia, improved stereoscope case.
- Geo. Marty, Pottsville, improvement in apparatus for hoisting coal.
- B. T. McCreary, New-York, double-acting catch for reversible backs for settees.
- W. J. McIntosh, Savannah, improved implement for reaping rice.
- Alexander Sprague, Mobile, improved apparatus for feeding furnaces with fuel.
- M. Newmen, 2d, Oak Hill, N. J., improved lock hasp.
- H. W. Oliver, Witneyville, Conn., improved floor clamps.
- Wm. Newbrough, Mohican, O., improvement in churns.
- Jos. Summers, Raleigh C. H., Va., improved wheel hub.
- Joel H. Tatum, Baltimore, preparation of oil ground to receive photographic impressions.
- Wm. D. Titus, Brooklyn, improvement in vault covers.
- Benj. T. Trimmer, Parma, N. Y., improvement in railroad brake.
- Maurice Vergnes, New-York, improvement in electro-magnetic engines.
- Dewitt C. Warner, Wikesbarre, improvement in wigs.
- Henry H. White and Edward A. Gray, East Poultney, improved stone marble saw.
- Geo. P. Wilcox and William Butler, Little Falls, N. Y., improvement in apparatus for teaching phrenology.
- Gilbert L. Bailey, Portland, improved door spring.
- Wm. H. Bramble, Cincinnati, improvement in grain weighing machines. Ante-dated April 8, 1856.
- Lebbin Brooks, Great Falls, N. H., improvement in adjusting the angle in machines for sawing marble obelisks.
- J. F. Downing, Erie, improved method of hanging and elevating or depressing farm gates.
- John Ericsson, New-York, improvement in air engines.
- Geo. G. Griswold, Carbondale, improved door springs.
- R. L. Hawes, Worcester, improved diaphragm fluid metre.
- Wm. H. Hovey, Springfield, Mass., improvement in harvester-raking attachments.
- Wm. A. Kirby, Buffalo, improvement in grain and grass harvesters.
- Jas. McLellan, Detroit, improvement in repairing railroad bars.
- O. W. Minard, Waterbury, Conn., improvement in making brass kettles.
- John North, Middletown, Conn., machine for folding paper.
- George W. Pruyne, Mexico, N. Y., improved machine for raising and creasing leather straps, &c.
- E. H. Stearns, Cincinnati, improved head and tail blocks for saw mills.
- Shubael Wilder, New-Castle, Pa., improved puddle bail squeezer.
- R. F. Wolcott, Claremont, N. H., improvement in weighing scales.
- Thomas A. Fisher, Lancaster, O., assignor to himself and J. R. Cooper, of same place, improvement in seeding machines.
- Benj. James, Worcester, assignor to Roswell E. James, of same place, improved awl-haft.

James M. Kern, Morgantown, Va., assignor to Enoch P. Fitch and Isaac Scott, of same place, improved method of adjusting circular saws for concave or convex work.

Julius T. Buel, Whitehall, N. Y., improved fishing tackle.

George J. Bitler, Lancaster, Ohio, improvement in seeding machines.

Warren S. Bartle, Newark, N. Y., improved machine for sowing fertilizers.

Alexander Buchann, New-York, improvement in balance and slide valve for steam engines.

Gustav A. Blittkowski and Frederick Wm. Hoffman, New-York, improvement in revolving fire-arms.

Andrew Coleman, Perth Amboy, improvement in receiving magnets for telegraphs.

John Culver, Baltimore, improved waste device for hydrants.

Patrick S. Devlan, Reading, improvement in brick machines.

John B. Erb, Strasburg, Pa., improvement in door locks.

George Esterly, Heart Prairie, Wis., improvement in cultivators.

Abraham Fitts, Worcester, improved machine for digging peat.

Samuel H. Gilman, New-Orleans, improvement in sugar evaporators.

Christian Haas and John C. Noll, Chicago, machine for driving spokes.

Wm. H. Hale, Worcester, improvement in hotel annunciators.

Wm. E. Hayes, Geneva, improvement in the arrangement of dampers for cooking stoves.

C. B. Hoard, Watertown, improvement in steam boilers.

Eben N. Horsford, Cambridge, improvement in preparing phosphoric acid as a substitute for other solid acids.

George Hubbard, Stonington, improvement in suspending extra topsail yards.

James J. Johnson, Alleghany, improvement for flasks for moulding.

James H. Kinyon and James Hollingshead, Chicago, for improvement in cotton cleaners.

Pells Manny, Wadham's Grove, Ill., improvement in subsoil plows.

Alonzo M. Mace, Springfield, Mass., improvement in hydro-carbon vapor lamps.

James Miller, Buffalo, improvement in machines for sawing marble in obelisk form.

R. C. Maack, Conard's Store, Va., and W. T. McGahey, of McGaheysville, Va., improvement in corn harvesters.

Albert J. Partridge, Southbridge, Mass., improvement in electro-magnetic printing telegraphs.

Thomas Petherich, Pottsville, improvement in coal breakers.

Nathan M. Phillips, New-York, electro-magnetic grain scale.

Edwin A. Palmer, Clayville, N. Y., improved measure faucet.

Alanson Quigley, Sheldrake, N. Y., improved apparatus for raising and lowering carriage tops.

Asa P. Robinson, New-York, improvement in cast iron pavements.

Wm. F. Shaw, Boston, improvement in gas burners.

Samuel R. Shepard and Orson W. Stow, Plantsville, Conn., improvement in working sheet metal.

Henry H. Sibley, of the United States army, improved conical tent.

Emile Sirrett and Wm. H. Scott, Buffalo, improvement in the method of fastening lamps to lanterns.

Thos. Smith, Pittsburg, improvement in projectiles for fire-arms.

George S. Spence, Boston, improved pressure regulating apparatus for steam-heating boilers.

Alfred Speer, Passaic, N. J., improved weather strip and lock for windows, &c.

A. H. Stephens, Warsaw, N. Y., improvement in corn-shellers.

Samuel T. Thomas, Lawrence, Mass., improvement in looms for weaving bags.

Richard Vose, New-York, improvement in divided axles for railroad cars.

Chas. B. Waite and James W. Senor, Fredericksburg, for improvement in coffee-pots.

Henry R. Worthington, Brooklyn, improvement in completing the throw of the valves of direct acting engines by the exhausted steam.

Thos. D. Burk, Chicago, assignor to John C. Miller and Chas. A. Fowler, same place, improvement in link gearing for horse powers.

Thos. D. Burk, Chicago, assignor to James Garrett, Ogle county, Ill., improved device to allow for contraction and expansion in wire fences.

Kelsey Curtiss, Winchester, Conn., assignor to the "Winsted Auger Company," same place, improved auger.

George W. Holmes, Buckfield, Me., assignor to James C. Marble, Paris, Me., improved hoop machine.

Samuel Hoffman, Richmond, Va., assignor to himself and James D. Brown, same place, combined shovel and tongs.

Ira Merrill, Shelburne Falls, Mass., assignor to himself and Arthur Maxwell, same place, improved machines for tunneling and quarrying.

Lucius Paige, Cavendish, Vt., assignor to himself and Albert L. Lincoln, Boston, Mass., improvement in studs for wearing apparel.

Thomas J. Alexander, of Westerville, Ohio, for improved sawing machine.

Enoch Applegate, of Wilmington, Del., for improvement in chain cable hooks.

Henry N. Baker, of Union, N. Y., for improvement in electro-magnetic printing telegraphs.

Edward Baptis, of Hoboken, N. J., for pen and pencil case.

Milton Barlow, of Lexington, Ky., for improvement in cradling harvesters.

Asa W. Cady, of Sullivan, N. Y., for improved machine for excavating and moving earth.

Wm. Dawson, of Huntington, Conn., for improvement in cigar machines.

John M. Dearborn, of Boston, Mass., for improvement in scaffolding.

John B. Evins, of Green Castle, Ind., for improved shingle machine.

Edwin J. Green and Moses H. Wheeler, of Cedarville, N. Y., for improvement in joint-bodied buggies.

Edward Hopkins, of Cincinnati, Ohio, for improvement in hand seed planters.

Wm. H. Hovey, of Springfield, Mass., for improvement in attaching harvester cutter blades to the sickle bar.

Salem T. Lamb, of New-Washington, Ind., for improvement in automatic rake for harvesters.

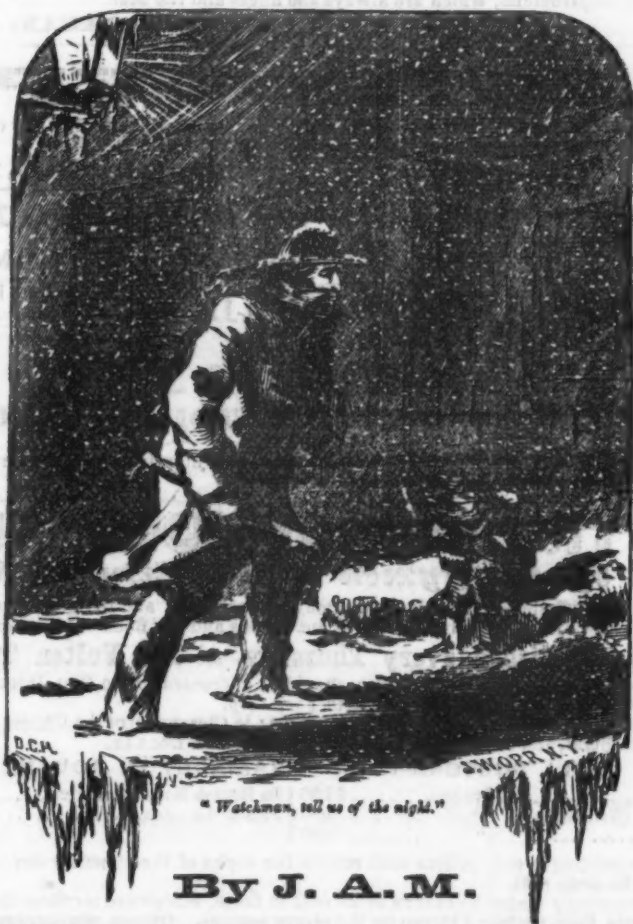
William Lyon and Charles W. Dickinson, of Newark, N. J., for improvement in the construction of dry gas meters.

- Ebenezer Mathews, of Morgantown, Va., for improvement in corn shellers.
- Jno. McInnes, of Braintree, Mass., for machine or printing woolen and other fabrics.
- Elisha P. Moulton, of Baltimore, Md., for improvement in door fasteners.
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- Ephraim L. Pratt, of Philadelphia, Pa., for improvement in machine for paring apples.
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- Benj. T. Roney, of Philadelphia, Pa., for improvement in harvester cutters.
- John B. Root, of Brooklyn, N. Y., for improvement in rotary steam engines.
- Bradford Rowe, of Albany, N. Y., for improved wrench.
- Simon F. Stanton, of Manchester, N. H., for improvement in breech loading fire-arms.
- Pling Thayer, of Lansingburg, N. Y., for improvement in reaping machines.
- Alex. Underwood, of German Flats, N. Y., for improved machine for manufacturing friction matches.
- Chas. P. S. Wardwell, of Lake Village, N. H., for improvement in box openers.
- John T. Whitaker, of St. Charles, Ill., for improvement in self rakers for harvesters.
- Samuel Wilt and George W. Albaugh, of Green Castle, Pa., for improvement in corn planters.
- J. W. Wood, of Washington, D. C., for improvement in propelling boats.
- Albert H. Brown, of Albany, N. Y., assignor to Tingley & Viele, of same place, for improved lathe.
- A. C. Ketchum, of New-York, N. Y., assignor to Edward D. Olcott, of same place, for improvement in machines for cleaning knives.
- Samuel W. Lowe, of Philadelphia, assignor to Jacob M. Beck, of Harrisburg, Pa., for machine for embossing and printing.
- John Reilly, of Heart Prairie, Wis., for improvement in harvester fingers.
- Clayton Brown, Senior, of Richmond, Ind., for improved apparatus for lubricating grist mill spindles.
- Chas. Beverly, of Ohio, for improved rotary shingle machine.
- Joseph Bastion, of Theresa, N. Y., for improved construction of guides, or chutes for turbine wheels.
- J. T. Baughman, of Frazesburgh, Ohio, for improved wagon tongue.
- Chas. Buss, of Marlboro, N. H., for improved vise.
- G. W. Bishop, of Brooklyn, N. Y., for improvement in self-heating smoothing irons.
- Abel Braer, of Saugatuck, Conn., for improved lubricator.
- Chas. S. Bruff, of Baltimore, Md., for improvement in double pannel shutters.
- Thos. D. Bailey, of Lowell, Mass., for improvement in pegging jacks or "shoemaker's head blocks."
- John D. Browne, of Cincinnati, Ohio, for improvement in machines for paring apples.
- Reinhold Boeklen, of Jersey City, N. J., for improvement in corn-planters.
- S. & Wm. H. Book, of Rushville, Ohio, for improved machine for sawing felloses.
- Chas. Day, of Lancaster, N. Y., and Alanson D. Lord, of Bethany N. Y., for improved machine for splitting wood.
- Wm. Clark, of Dayton, Ohio, for improvement in processes for making paper from straw.
- C. J. Cowperthwait, of Philadelphia, Pa., for improved hydrant.
- Samuel Davis, of New-Holland, Pa., for improvement in lard lamps.
- Melvin C. Chamberlin, of Sheldon, N. Y., for improved mould press for horse collars.
- Albert G. Field, of Quincy, Ill., for improved self-regulating wind-mill.
- John Gustine and J. M. Rankin, of Lewistown, Ill., for improved road scraper.
- Abraham Heulings, of Philadelphia, Pa., for improvement in potato diggers.
- Nathaniel Hayward, of Colchester, Conn., for process of preparing elastic india rubber cloth.
- Abraham Hager, of Baton Rouge, La., and Youngs Allyn, of New-Orleans, La., for improvement in bagasse furnaces.
- Benj. L. Hoed, of Albany, N. Y., and E. P. Monroe, of Charleston, Mass., for improvement in salt evaporators.
- Henry G. Tyler, of Ballard Vale, Mass., and Jno. Helm, of New-Brunswick, N. J., for improvement in making gum-elastic cloth. Ante-dated January 9, 1856.
- Moses A. Johnson, of Lowell, Mass., for improvement in manufacturing felted yarns.
- Matthew S. Kahle, of Lexington, Va., for improvement in machines for saving clover seed.
- Matthew S. Kahle, of Lexington, Va., for improvement in dumping scrapers.
- James T. King, of New-York, N. Y., for improvement in washing machine.
- Edward Linder, of New-York, N. Y., for improvement in breach-loading guns.
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June, 17.

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Feb. 2

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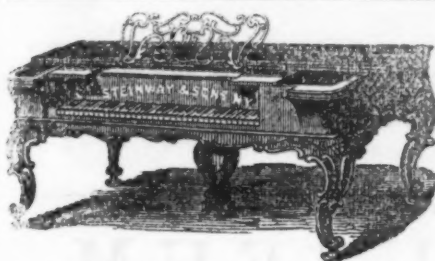
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May 11.

East Hartford, April 24, 1855.



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1 May.

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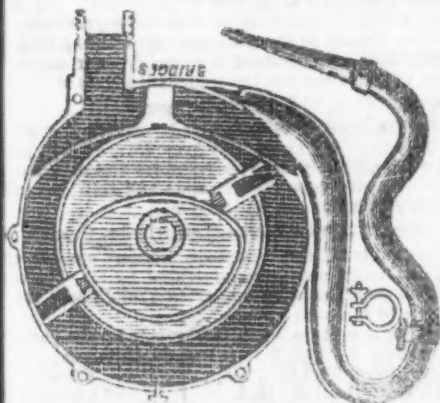
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WESTERN AMERICAN COOKING-STOVE.



The undersigned having been constantly engaged in the retail Stove trade since 1828, and having spent much time and money in the invention and structure of Patterns during the last fifteen years, he has now the satisfaction of being able to announce to the Stove Manufacturers and the public that, in November, 1852, he obtained a Patent for a combination of improvements in the Cooking Stove, and that since that time he has been thoroughly testing, improving, and perfecting the Stove containing these improvements. The above cut represents the Stove in its present form, and the undersigned presents it to the public with entire confidence as to its superiority.

The main object of this circular will be to point out the above improvements and the consequent advantages. But it may be proper first to show the prominent defects in the more popular stoves now in use, that the importance of these improvements may be more readily understood. And it may be here asserted, that among the almost endless variety of names to stoves, as well as designs and forms, there are really but two distinct principles in general use. These are distinguished as the high and the low oven; the high oven being located above the fire, and the low oven below. Among the important and unavoidable objections to the low oven, are the following, viz: First. The want of heating surface for warming rooms where heat is desired; the top or boiler-plate being the main heating surface, (as heat will not act to any extent upon the outer surface when forced downward under the oven,) while the elevated oven has the same heating surface lower in the room, (consequently much better,) the oven acting as a perfect drum on the top, producing at least double heat with the same fuel, giving this principle a great advantage during the cold season, especially to the agricultural interest, and, in a good degree, to the mechanical. The next objection to the low oven as a wood-stove is, its liability to be affected by the action of pyroligneous acid, which forms upon the under surface of the inside bottom oven-plate. This formation becomes a solid crust on the oven-plate, and can not be separated, except by excessive heat, which can not be applied without taking the stove to pieces, and this crust, when formed to any extent, is a perfect non-conductor of heat, and the oven falls. The third objection is a want of durability, upon the principle that no plate can be sustained long near the fire-chamber without a free action of cold air upon its opposite surface, and the back-plate to the fire-chamber can not have this action without a serious injury to the oven. The fourth objection is increased expense; as the lining to the low oven must be cast-iron, while the lining to the elevated oven should be sheet-iron, which is much less expensive, and in this oven is equally durable. The fifth objection is inconvenience; as the boilers and fire-chamber are too high and the oven too low. The objections to the high oven as generally introduced are—First, The great distance from the fire-chamber to the oven, causing a great increase of fuel, and, consequently, great inconvenience from the excessive heat during the warm season, as well as extra expense. The great effort which has been made to overcome these defects is the strongest proof of their existence. The oven has been raised on pipes over the boilers—this was impracticable except for a two-boiler stove; it has been placed back, and the movable plan called the railway adopted. But the want of tightness, the expense of machinery, and liability to get out of order, were the objections. The second fire-chamber back of the main chamber has been tried, but the draft being at one end of the chamber, and no ability to convey it through the chamber, it has been found impracticable and generally abandoned. Many other plans have also been tried, and have been found wanting. The second objection is the want of oven capacity, which has been a serious objection to the larger families, and the remedy has been found extremely difficult. Should the oven be enlarged in width, the stove would be too long, and the amount of fuel would be much increased; if in length, the heat would not act upon the ends, and if in height, the oven would not bake in the middle. These things are believed, are the only important objections to the elevated oven; and to avoid these may be imputed the sole cause of the first introduction of the low oven; the high oven, in all other respects, being superior. Now, the object and design of the undersigned's improvements is to entirely remove the objections to the high oven, retaining all its advantages, and, at the same time, possess all the benefits of the low oven, avoiding its defects. And to effect this object, a deep sink is first placed in the fire chamber; this gives extra room for fuel, and is designed for the cold season. A grate is next attached in front, and a bed-plate in rear, sufficiently large to cover the surface of the sink, and resting upon its top; back of

these plates, at the centre of the fire-chamber, a cross-sink is placed, extending back, and in an upward direction to the front of the oven.

This construction brings the fuel near the boilers; the coals are retained on the bed-plate back of the grate; chips or charcoal burn equally well with wood and with the cross-sink wood burns endwise from the front, free to the back, it being raised at the back by the sink, giving a free circulation of air underneath. Two objects are thus effected. The first, a perfect summer arrangement. The second, bringing the fire as near the oven as desired in the most simple and practical manner, without heating but a small part of the front of the stove, and entirely avoiding the unnecessary heat and expense attached to other elevated ovens. For ironing, for the dairy, and other purposes, a large boiler-hole is placed over the centre of the fire-chamber, where the sad iron may be heated with chips or charcoal as economically as in the furnace, and the brass kettle or any large vessel may be used. At the back end of this cross-sink an angular division-plate is attached, standing upright. This divides the heat, and causes it to strike the oven near each end. Upon this division-plate rests a curve-plate, the front edge striking the top or boiler-plate just forward of the front of the oven; this plate curves back under the oven near to its centre; thus the heat is carried to the centre of the oven and near each end, and there it first acts upon it. The bottom of the oven being cast-iron, and on a line with the top or boiler plate.

The next improvement is, to place internally two ovens the one above the other, both ovens being sheet-iron, except the lower bottom-plate; on each side of these ovens a plate called a guard-plate is attached and fitted to the outside plate. These plates extend inwardly midway between the two ovens so far as to force the heat in around them. In this manner the heat divides upon the bottom of the lower oven near each end, passing up and around both sides, and by the guard-plate is carried to the centre between the two ovens; here it divides and passes around the upper oven in the same manner, and out at the collar on the top. Thus it will be seen that the same heat is used doubly over the entire surface of two distinct ovens instead of one, and the most naturally, perfectly, and economically, that it can be applied upon an oven. A stop is also placed upon the oven-head between the two ovens, which, when raised, allows the steam to pass out of the ovens. The effect is, first, to allow meats to be baked in the lower oven as perfectly as in the tin kitchen before the fire-place. Secondly, to allow all kinds of pastry to be baked in the upper oven at the same time as perfectly as in the brick-oven; and as to capacity, the oven on the nine-inch stove bakes nine common pie-tins at once, without changing in any manner, or six loaves of bread. This finishes the improvement in the Cook-Stove.

The undersigned would next present a Stove arranged for the Dining-Room during the cold season. See cut, page 745, of this number.

This stove is arranged on the same general plan of the cook, except that the oven is made single instead of double, and is brought forward and placed over the second tier of boilers. This stove is a fine heater. It requires no more room than the parlor-stove; has four good boilers when the oven is not in use, otherwise two boilers. Has an excellent oven, and its arrangement for broiling, ironing, and cooking is complete, and is much the cheapest stove for its size and capacity in market; altogether, the most durable, and sufficiently ornamented for any sitting-room, and admirably arranged for coal as well as wood, and for the small family as well as the dining-room.

Extensive arrangements have been made with MR. JAMES WAGER, of Troy, for the manufacture and sale of both Stoves and Patterns for the year 1855, and either will be furnished having all the style and finish that the best artists and manufacturers in the city of Troy can produce.

The manufacturers will understand that these are easy stoves to cast, and simple to mount; that, as the principle is patented, they can have the control for many years; that exclusive Furnace Rights will be given in the sale of Patterns; that, having the Patterns for the Cook-Stove, only a few extra pieces will be required for the Dining-Room. All sizes will be furnished that may be desired.

All communications addressed to MR. JAMES WAGER, of Troy, or to the undersigned, at BROCKPORT, N. Y., will receive prompt attention.

M. CHAPIN SADLER.

P. S.—As a proof of the merits of the above improvements, Certificates from those who have tested them by thousands can be furnished, but the following are presumed to be sufficient. The first, with nearly forty names, was signed at an Agricultural Fair held at Rochester, and mostly by strangers to the undersigned, and all within a few hours' time. The others, by the most substantial men engaged in different pursuits.

We, the undersigned, citizens of Monroe County, N. Y., and vicinity, hereby certify that we have had in use, for some time past, the Western American Cooking-Stove, invented by M. C. Sadler, of Brockport; that we consider it decidedly the best stove we have tried, and should much prefer it to any stove we have seen. The oven, we think, is unequalled, being a perfect baker, baking meats, pastry, &c., all at the same time. The boiling arrangement we prefer to any we have noticed, believing that can get more heat with less fuel, and less labor in preparing it. Indeed, this Stove seems to perfect every object designed. It is simple to manage, economical, tasty in appearance, and convenient; and, we believe, the most durable stove in market, and the best adapted to the wants of the farmer, as it does the work in summer without an excessive heat, and is the most pleasant winter stove we have found, giving the most steady and uniform heat, with the least fuel.

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M. C. SADLER, ESQ.—DEAR SIR: I take pleasure in certifying that I have one of your No. 6 Western American Cooking-Stoves in use. I have tested it one year, and find it entirely satisfactory. It is extremely simple in arrangement, most perfect in application for all the variety of cookery. I consider the principle altogether superior to the Three-Flue Low-Oven arrangement, (having tested this arrangement before using yours,) as it is much more rapid in its operation, and requires much less fuel.

Yours, &c.,
ELIJAH FOOT, Keeper Boarding-House, Brockport Institute.
THOMAS TALFORD, Inn-Keeper.
SILAS WALBRIDGE, Inn-Keeper.

M. C. SADLER, ESQ.—DEAR SIR: In answer to your inquiry as to the merits of your Western American, I can freely say, I have used one of your largest size, for nearly one year, and find it all that is desirable for a Cooking-Stove. It has the most perfect oven I have ever found—a stove perfectly simple, durable, economical, and convenient; and, I think, particularly adapted to the wants of the farmers, who use their Cooking-Stoves for warming their rooms in winter—as the oven is a drum for this purpose. I have kept public house for a number of years, am well-acquainted with stoves, and consider yours altogether superior to any I have used.

Yours, truly,

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PROSPECTUS.

ALMOST within the limits of a life-time, a mighty nation of freemen has sprung into being—combining all the elasticity of youth with the vigor and maturity of manhood—a spectacle of such imposing grandeur, that it has not only challenged the admiration of mankind, but marked an epoch in the annals of time that must prove of momentous consequence to the entire world. It presents the first instance in the history of nations of the entire success of free civil institutions, and popular self-government. This grand Confederacy already occupies a vast area, stretching over the American Continent, from the Arctic to the Equator, and bounded by the waters of the Atlantic and the Pacific.

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
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Light of Reason, History, and Scripture.

WITH AN APPENDIX CONTAINING

A REPLY TO THE SPEECH IN CONGRESS OF HON. JOSEPH
R. CHANDLER, IN SUPPORT OF ROMANISM.

BY EDWARD BEECHER, D.D.

PUBLISHED AND FOR SALE BY M. W. DODD, CITY HALL SQUARE, N. Y.

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INHALATION FOR DISEASES OF THE LUNGS.

The following letter on the subject of inhalation as a remedy for consumption and its congeners was written by Francis C. Woodworth, editor of "Woodworth's Youth's Cabinet." We present it without any remarks of our own, other than this, that we regard the testimony of Mr. Woodworth as reliable in the highest degree. The letter was originally communicated to Mr. Sampson, of the house of Messrs. Philips, Sampson & Co., a gentleman who has a pulmonary consumption of some years standing.

118 Nassau Street, New-York, August 25, 1855.

MY DEAR SAMPSON:—I am sorry to learn that the genius of disease is making progress in your lungs. I am not surprised, however, by this disagreeable intelligence, for I have but little faith in the treatment most in vogue for consumption and kindred diseases. The great mass of the medical faculty regard it as an axiom, that consumption is incurable. The most that they attempt, therefore—I speak of the multitude, not of every individual physician—is to render the consumptive patient as comfortable as possible on his way to the grave. But, my dear friend, is this axiom a sound one? Is this malady beyond the reach of medical skill? I think not. I am not extravagantly sanguine in respect to achievements in the art of healing. It has long been my conviction that there is no science so little understood—none which from the very nature of disease, is so enveloped in mist and darkness. But, at the same time, I am confident, from the reason of the case, as well as from well-established facts, that diseases of the lungs, including consumption in its early stages, are not marked by any peculiar obscurity, and consequently exhibit no peculiar obstinacy.

I said that I have but little confidence in the old and more current method of treating consumption and kindred diseases having their seats in the lungs. To my mind, it is in the highest degree unphilosophical to levy a tax on the stomach for the benefit of the lungs, when, as is uniformly the case in pulmonary difficulties, this much abused organ, from intense sympathy with the diseased member, has quite as much as it can do to keep its machinery in healthful operation. Look at the absurdity of the thing. Nauseous and poisonous drugs, enough to furnish a village apothecary's shop, are thrown into the stomach to impede its action, and just at the time when the energies of the system are sinking, and when the heart and the lungs, in consequence, are forced to make unusually large drafts on the organs of digestion; for no one, with ever so superficial a knowledge of the animal economy, can help seeing, that the regular and rapid conversion of food into blood is more than ever necessary in consumption, to repair the waste induced by this disease. It were far better, in my judgment, for a physician to give his consumptive patients a thorough *letting alone* than to give them drugs; and I will do the faculty the credit to believe that they adopt the former, rather than the latter course, in some (I wish I could say many) instances.

You have surmised already, that I have become a convert to the doctrine of inhalation of alcoholic vapors in cases of pulmonary consumption, and you are right. Some time since, by the advice of a friend, I was induced, for my own benefit, to canvass this theory carefully and thoroughly. It seemed at first more consistent with reason than any of those which are current in the different schools of medicine; the more I looked into it, the stronger the conviction in my mind became, that it was the only rational theory. I give my opinion, I must confess, with some confidence; for I am quite well aware that there is a very large class of professional men who deem the expression of any opinion on the part of one of the laity, like myself, in respect to the theory and practice of medicine, as most unwarrantable arrogance. Our business, we are told, is to believe, not to speculate; to swallow bitter doses, not to analyze, still less to denounce them. But I verily believe that, if I have been grasped by the ruthless hand of disease, I may use some discretion, especially when doctors so widely disagree as to the mode of getting out of his grasp, nor can I exactly see why I should be charged with the presumption of setting myself up for an *Æsculapius* or a *Galen*, because I take such a liberty.

Having satisfied myself as to the philosophy of the system of inhalation, I then examined the records of a multitude of cases which had been treated according to this system, for what is that philosophy worth which has not a broad foundation of well attested facts to stand upon?—to see how they accorded with this theory. The result was an overwhelming amount of evidence, both from patients who had been under this mode of treatment, and from candid physicians who had jealously watched the effect of this treatment, of the efficiency of inhalation.

The physician who has attended me at my country residence, ever since my severe attack of congestion of the lungs some two years since, and who, besides being one of the most rational and judicious physicians in the whole round of my acquaintance, is one of the best-natured and most unselfish men in the world, not only consented that I should make trial of this new method of treating diseases of the lungs, but advised me to do so, giving it as his opinion that there was more science than quackery in it. Still I hesitated. You see how obstinately conservative I am. One day, while in the city of New-York, I called on one of the most popular, and it is fair to say, one of the most successful physicians of the old school, and asked him to examine my lungs. He did so. Incipient tubercles, he said, had begun to show themselves on the right lung. Well, I was prepared for that disclosure. It was no more than I anticipated, scarcely as much. "Now, sir," I asked, "would you be willing to take my case under your care, do you think you could be of any service to me?" He replied with a frankness not often encountered in the profession or out of it. "I tell you plainly, I would rather not undertake it; I have very little confidence in my skill in such cases."

After this, I consulted Dr. GUILFORD D. SANBORN, No. 6 Bond Street, New-York, one of the gentlemen, as you are aware, who treat consumption and kindred diseases by inhalation. I went to Dr. Sanborn, rather than another, because I was better acquainted with his theory and practice, several of my own personal friends having been under his care, and derived incalculable benefit, in their judgment, from his treatment. Dr. Sanborn's opinion of the state of my lungs, after a minute examination with the stethoscope, coincided exactly with that of the physician whom I had previously consulted, though, unlike this physician, he was sanguine in the belief that he could be of essential service to me. I placed myself under his care, I commenced inhaling medicated vapors according to his directions, I commenced drinking wine too, under protest of course, as you know I am a disciple of the abstinent school—also by his advice. In fact, I made a pretty general use of alcohol, considering my former habits, both outside and inside. These were the principal, though not all of the features embraced in the system of Dr. Sanborn. I scrupulously and carefully observed all his instructions. I even consented, for a time, very materially to reduce the number of hours devoted to my literary tasks. Well, for some reason or other, perhaps for a combination of reasons, my health has improved to an astonishing extent; my appetite has increased; my strength is far greater; my cough has been checked; I suffer much less from want of health when exercising; I scarcely perceive that any difficulty whatever exists in my lungs. I do not claim that inhalation alone has done all this. I am not sure that it has been the principal agent. But, is it not a fair presumption that the entire treatment of Dr. Sanborn, including this agent, has been the means, under God, of effecting this favorable change? Would you not say, were I under the care of any physician of the old school, who was entirely *en regle*, that any improvement was due to his skill? How then can I deny to Dr. Sanborn, albeit a little irregular in his practice, the credit of doing me immense service?

The object of this long letter, my dear friend, I need not tell you, is an endeavor to prevail on you to give the system of inhalation a trial. I am sure it can do you no injury; I am almost equally sure it will prove a benefit to you. Pray lose no time in making the trial.

Yours sincerely,

FRANCIS C. WOODWORTH

A FARM AND WATER POWER FOR SALE.

FOR SALE.—A Farm with extensive Water Power Privilege, together with 184 Acres of land, located about two and a half miles from Ellenville, in Ulster Co., on the line of the Delaware and Hudson Canal. About one-third of the land is in a high state of cultivation; six dwelling houses, will accommodate nine families; a store, with sheds adjoining; barn and sheds, and a saw-mill; also, a never-failing stream of water, with falls sufficient to erect several over-shot water wheels, all of which is convenient to the dwelling and the road leading to the canal.

For further particulars enquire of S. CUTTER, No. 386 Ninth Street, New-York: G. SANFORD, 180 Mill Street, Po'keepsie, or of the Proprietor on the premises.

W.

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Cor. of Fourth Avenue & 7th Street,

NEW-YORK.

THIS Laboratory is a department of the Union Square Real Estate Office, and is under the personal direction and charge of Dr. J. H. Salisbury, late Chemist to the New-York State Agricultural Society, and widely known and justly celebrated for his eminent attainments in this and kindred departments of Science.

The object of the Proprietors in establishing this Laboratory is to furnish those interested in Commercial, Agricultural, and Metallurgical pursuits an accessible, ready, and reliable means for obtaining analyses of Commercial Articles, Soils, Manures, Marl, Peat, Limestone, Gypsum, Coal, Ores, and Minerals of every description, together with all other information connected with the application of Chemistry to Agriculture, Geology, Mining, Engineering, and the Arts generally.

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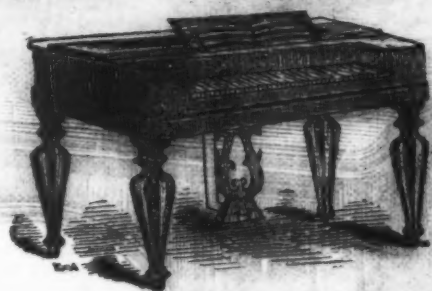
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All Samples and Communications to be forwarded by Express, or post-paid, to Dr. Jas. H. Salisbury, No. 3 Everett House, cor. of Fourth Avenue and 17th Street, or presented in person at his Office, No. 1 Appletons' Building, over the Book Store, 346 Broadway, New-York.

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An instrument of this kind is the best substitute for an organ in church music, and will admit of the performance of as rapid passages as the pianoforte.

Our instruments are put up in elegant rosewood cases, with the usual variety of size and price—they are warranted to give perfect satisfaction, and will be carefully packed and sent, at our own risk, to any part of the United States.

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B. M. WATSON, Old Colony Nurseries, Plymouth, Mass., would call attention to his large and fine assortment of new and rare ornamental Trees and Shrubs, Vines, Evergreens, Roses, Hedge Plants, &c., for the lawn, avenue, and cemetery, including many new varieties now offered for the first time in this country. A full descriptive priced catalogue is now ready, and will be sent gratis to any address. The nurseries are within ten hours of New-York by the Old Colony and Fall River route; and B. M. W. takes pleasure in announcing that the carriage of all packages will in future be paid to New-York as well as to Boston, and also to all stations on the O. C. and F. R. Railway. Parties about purchasing are invited to send for a catalogue before purchasing elsewhere. Persons about purchasing large quantities of young trees and shrubs for masses, hedges, groves, belts, &c., at low prices, are referred to catalogue, pp. 3 and 4.

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WESTERN AMERICAN COOKING-STOVE.



THE undersigned having been constantly engaged in the retail Stove trade since 1828, and having spent much time and money in the invention and structure of Patterns during the last fifteen years, he has now the satisfaction of being able to announce to the Stove Manufacturers and the public that, in November, 1852, he obtained a Patent for a combination of improvements in the Cooking Stove, and that since that time he has been thoroughly testing, improving, and perfecting the Stove containing these improvements. The above cut represents the Stove in its present form, and the undersigned presents it to the public with entire confidence as to its superiority.

The main object of this circular will be to point out the above improvements and the consequent advantages. But it may be proper first to show the prominent defects in the more popular stoves now in use, that the importance of these improvements may be more readily understood. And it may be here asserted, that among the almost endless variety of names to stoves, as well as designs and forms, there are really but two distinct principles in general use. These are distinguished as the high and the low oven; the high oven being located above the fire, and the low oven below. Among the important and unavoidable objections to the low oven, are the following, viz: *First*. The want of heating surface for warming rooms where heat is desired; the top or boiler-plate being the main heating surface, (as heat will not act to any extent upon the outer surface when forced downward under the oven,) while the elevated oven has the same heating surface lower in the room, (consequently much better,) the oven acting as a perfect drum on the top, producing at least double heat with the same fuel, giving this principle a great advantage during the cold season, especially to the agricultural interest, and, in a good degree, to the mechanical. The next objection to the low oven as a wood-stove is, its liability to be affected by the action of pyroigneous acid, which forms upon the under surface of the inside bottom oven-plate. This formation becomes a solid crust on the oven-plate, and can not be separated, except by excessive heat, which can not be applied without taking the stove to pieces, and this crust, when formed to any extent, is a perfect non-conductor of heat, and the oven falls. The third objection is a want of durability, upon the principle that no plate can be sustained long near the fire-chamber without a free action of cold air upon its opposite surface, and the back-plate to the fire-chamber can not have this action without a serious injury to the oven. The fourth objection is increased expense; as the lining to the low oven must be cast-iron, while the lining to the elevated oven should be sheet-iron, which is much less expensive, and in this oven is equally durable. The fifth objection is inconvenience; as the boilers and fire-chamber are too high and the oven too low. The objections to the high oven as generally introduced are—*First*. The great distance from the fire-chamber to the oven, causing a great increase of fuel, and, consequently, great inconvenience from the excessive heat during the warm season, as well as extra expense. The great effort which has been made to overcome these defects is the strongest proof of their existence. The oven has been raised on pipes over the boilers—this was impracticable except for a two-boiler stove; it has been placed back, and the movable plan called the railway adopted. But the want of tightness, the expense of machinery, and liability to get out of order, were the objections. The second fire-chamber back of the main chamber has been tried, but the draft being at one end of the chamber, and no ability to convey it through the chamber, it has been found impracticable and generally abandoned. Many other plans have also been tried, and have been found wanting. The second objection is the want of oven capacity, which has been a serious objection to the larger families, and the remedy has been found extremely difficult. Should the oven be enlarged in width, the stove would be too long, and the amount of fuel would be much increased; if in length, the heat would not act upon the ends, and if in height, the oven would not bake in the middle. These two, it is believed, are the only important objections to the elevated oven; and to avoid these may be imputed the sole cause of the first introduction of the low oven; the high oven, in all other respects, being superior. Now, the object and design of the undersigned's improvements is to entirely remove the objections to the high oven, retaining all its advantages, and, at the same time, possess all the benefits of the low oven, avoiding its defects. And to effect this object, a deep sink is first placed in the fire-chamber; this gives extra room for fuel, and is designed for the cold season. A grate is next attached in front, and a bed-plate in rear, sufficiently large to cover the surface of the sink, and resting upon its top; back of

these plates, at the centre of the fire-chamber, a cross-sink is placed, extending back, and in an upward direction to the front of the oven.

This construction brings the fuel near the boilers; the coals are retained on the bed-plate back of the grate; chips or charcoal burn equally well with wood and with the cross-sink wood burns endwise from the front, free to the back, it being raised at the back by the sink, giving a free circulation of air underneath. Two objects are thus effected. The first, a perfect summer arrangement. The second, bringing the fire as near the oven as desired in the most simple and practical manner, without heating but a small part of the front of the stove, and entirely avoiding the unnecessary heat and expense attached to other elevated ovens. For ironing, for the dairy, and other purposes, a large boiler-hole is placed over the centre of the fire-chamber, where the sad iron may be heated with chips or charcoal as economically as in the furnace, and the brass kettle or any large vessel may be used. At the back end of this cross-sink an angular division-plate is attached, standing upright. This divides the heat, and causes it to strike the oven near each end. Upon this division-plate rests a curve-plate, the front edge striking the top or boiler-plate just forward of the front of the oven; this plate curves back under the oven near to its centre; thus the heat is carried to the centre of the oven and near each end; and there it first acts upon it. The bottom of the oven being cast-iron, and on a line with the top or boiler plate.

The next improvement is, to place internally two ovens the one above the other, both ovens being sheet-iron, except the lower bottom-plate; on each side of these ovens a plate called a guard-plate is attached and fitted to the outside plate. These plates extend inwardly midway between the two ovens so far as to force the heat in around them. In this manner the heat divides upon the bottom of the lower oven near each end, passing up and around both sides, and by the guard-plate is carried to the centre between the two ovens; here it divides and passes around the upper oven in the same manner, and out at the collar on the top. Thus it will be seen that the same heat is used doubly over the entire surface of two distinct ovens instead of one, and the most naturally, perfectly, and economically, that it can be applied upon an oven. A stop is also placed upon the oven-head between the two ovens, which, when raised, allows the steam to pass out of the ovens. The effect is, first, to allow meats to be baked in the lower oven as perfectly as in the tin kitchen before the fire-place. Secondly, to allow all kinds of pastry to be baked in the upper oven at the same time as perfectly as in the brick-oven; and as to capacity, the oven on the nine-inch stove bakes nine common pie-tins at once, without changing in any manner, or six loaves of bread. This finishes the improvement in the Cook-Stove.

The undersigned would next present a Stove arranged for the Dining-Room during the cold season. See cut, page 745, of this number.

This stove is arranged on the same general plan of the cook, except that the oven is made single instead of double, and is brought forward and placed over the second tier of boilers. This stove is a fine heater. It requires no more room than the parlor-stove; has four good boilers when the oven is not in use, otherwise two boilers. Has an excellent oven, and its arrangement for broiling, ironing, and cooking is complete, and is much the cheapest stove for its size and capacity in market; altogether, the most durable, and sufficiently ornamented for any sitting-room, and admirably arranged for coal as well as wood, and for the small family as well as the dining-room.

Extensive arrangements have been made with MR. JAMES WAGER, of Troy, for the manufacture and sale of both Stoves and Patterns for the year 1855, and either will be furnished having all the style and finish that the best artists and manufacturers in the city of Troy can produce.

The manufacturers will understand that these are easy stoves to cast, and simple to mount; that, as the principle is Patented, they can have the control for many years; that exclusive Furnace Rights will be given in the sale of Patterns; that, having the Patterns for the Cook-Stove, only a few extra pieces will be required for the Dining-Room. All sizes will be furnished that may be desired.

All communications addressed to MR. JAMES WAGER, of Troy, or to the undersigned, at BROCKPORT, N. Y., will receive prompt attention.

M. CHAPIN SADLER.

P. S.—As a proof of the merits of the above improvements, Certificates from those who have tested them by thousands can be furnished, but the following are presumed to be sufficient. The first, with nearly forty names, was signed at an Agricultural Fair held at Rochester, and mostly by strangers to the undersigned, and all within a few hours' time. The others, by the most substantial men engaged in different pursuits.

We, the undersigned, citizens of Monroe County, N. Y., and vicinity, hereby certify that we have had in use, for some time past, the Western American Cooking-Stove, invented by M. C. Sadler, of Brockport; that we consider it decidedly the best stove we have tried, and should much prefer it to any stove we have seen. The oven, we think, is unequalled, being a perfect baker, baking meats, pastry, &c., all at the same time. The boiling arrangement we prefer to any we have noticed, believing that can get more heat with less fuel, and less labor in preparing it. Indeed, this Stove seems to perfect every object designed. It is simple to manage, economical, tasty in appearance, and convenient; and, we believe, the most durable stove in market, and the best adapted to the wants of the farmer, as it does the work in summer without an excessive heat, and is the most pleasant winter stove we have found, giving the most steady and uniform heat, with the least fuel.

GEORGE S. CLOUGH,
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M. C. SADLER, ESQ.—DEAR SIR: I take pleasure in certifying that I have one of your No. 6 Western American Cooking-Stoves in use. I have tested it one year, and find it entirely satisfactory. It is extremely simple in arrangement, most perfect in application for all the variety of cookery. I consider the principle altogether superior to the Three-Flue Low-Oven arrangement, (having tested this arrangement before using yours,) as it is much more rapid in its operation, and requires much less fuel.

Yours, &c.

ELIJAH FOOT, Keeper Boarding-House, Brockport Institute.
THOMAS TALFORD, Inn-Keeper.
SILAS WALBRIDGE, Inn-Keeper.

M. C. SADLER, ESQ.—DEAR SIR: In answer to your inquiry as to the merits of your Western American, I can freely say, I have used one of your largest size, for nearly one year, and find it all that is desirable for a Cooking-Stove. It has the most perfect oven I have ever found—a stove perfectly simple, durable, economical, and convenient; and, I think, particularly adapted to the wants of the farmers, who use their Cooking-Stoves for warming their rooms in winter—as the oven is a drum for this purpose. I have kept public house for a number of years, am well-acquainted with stoves, and consider yours altogether superior to any I have used.

Yours, truly,

A. W. CARY, Rotary-Pump Manufacturer.

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These Machines have just been greatly improved by the Inventor, so that they work without noise, and with one-half the power formerly required. No other Sewing Machines are capable of doing every kind of work perfectly—they sew linen, cotton, silk, woolen, and leather fabrics of every description, and without a fault. Each Machine, judiciously used, will bring to the owner

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AM adverse patent claims affecting these Machines have been fully settled, but all the Machines of other manufacturers infringe our patents, and can not be safely used. Machines are at all times on exhibition, and for sale at the

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The Lodi Manufacturing Co. offer for sale their IMPROVED POUDRETTE, which has now stood the test of fifteen years in this country.

It is the only article that is in the market which can be used generally with profit, either in gardens or in fields. It is an excellent substitute for barnyard manure, and, above all, cheap and economical. Three dollars worth will manure an acre of corn, and cause it to come up quicker, grow faster, and yield heavier, than any other manure. It is excellent for all kinds of garden crops and fruit trees—its results are sometimes astonishing.

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THE LODI MANUFACTURING CO.,

74 COURTLANDT STREET, New-York,

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LODI MANUFACTURING CO.

GENTLEMEN:—At the request of John P. Cushing, Esq., of this place, I have, for the last five years, purchased from you two hundred barrels of Poudrette per annum, which he has used upon his extensive and celebrated garden in this town. He gives it altogether the preference over every artificial manure, (guano not excepted;) speaks of it in the highest terms as a manure for the kitchen garden, especially for potatoes.

I am, gentlemen, very respectfully, your most obedient servant,

BENJAMIN DANA.

SUPER PHOSPHATE OF LIME MANURE

C. B. DE BURG

Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

highly charged with "Ammonia," which, from experiments made by scrupulous experimenters, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

To avoid imposition or deception being practised, henceforth all packages will be distinctly marked, "C. B. De Burg's No. 1, Super Phosphate of Lime."

Pamphlets, with instructions for use, etc., will be forwarded on application to

C. B. DE BURG, SOLE PROPRIETOR,

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The undeniable evidence of the superiority of Safes manufactured by the subscribers is known and acknowledged by a discriminating public, who are assured that all Safes made and sold by them or their authorised agents will be equal to the best, and superior to some of the many which have passed through the fiery ordeal for the last fifteen years; as published and commented upon by the press of the United States. They are secured with the celebrated HALL'S PATENT POWDER PROOF LOCK,—the subscribers being the patentees by purchase.

It is generally known all over the world that the proprietors placed this Safe, in competition with about thirty others, at the WORLD'S FAIR, LONDON, in 1851, placing within it ONE THOUSAND DOLLARS IN GOLD, as a reward to any who could open the Safe, but not one of the operators was found sufficiently skilled in the art of Lock-picking to pick the lock or open the Safe—the money remained secure for forty five days. At the close of the Exhibition the Jury on Safes and Locks very justly awarded separate medals for the Safe and Lock, which can be seen and compared with the one awarded for the same patents at the World's Exhibition in New-York, in 1853 and 1854.

They can be had of the proprietors or their agents in most of the cities in the United States and Canadas.

SILAS C. HERRING & Co., Patentees and Manufacturers, cor. Pine & Water Sts., N. Y.

N. B.—Purchasers wanting the Patent Champion Safe should see that it bears his name upon a metal plate, none others being genuine. S. C. H. & Co. June, 5m.

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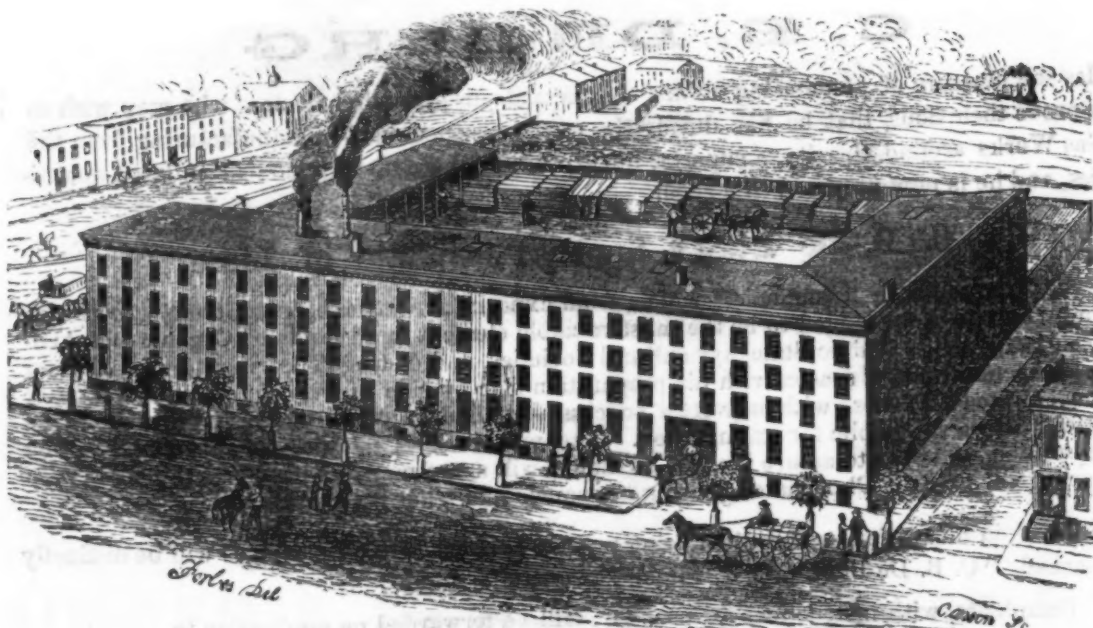
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Bird's-Eye View of their Factory.



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TWENTY YEARS' experience as Piano Forte Manufacturers, with the thousands of our Pianos scattered throughout the United States, Canada, South America, Mexico, and Europe, give us confidence to believe it unnecessary or us to speak of their superiority. Our facilities for manufacturing are unsurpassed. Our factory is the

MODEL FACTORY OF THE UNION,

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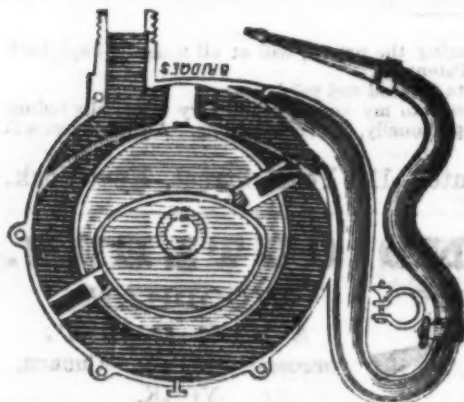
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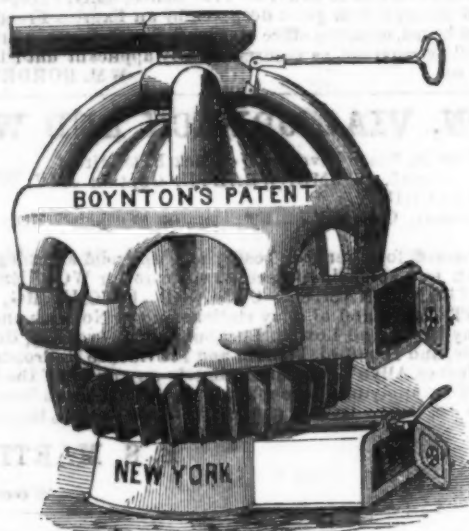
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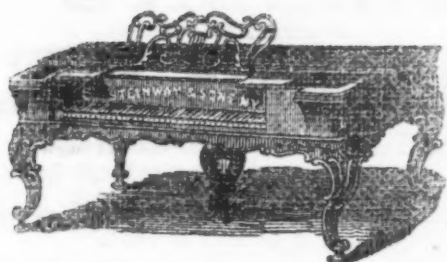
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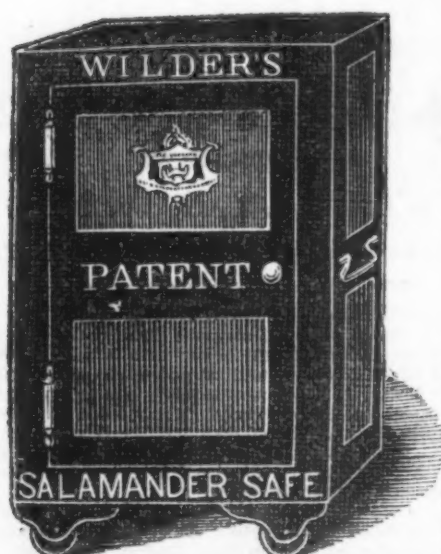
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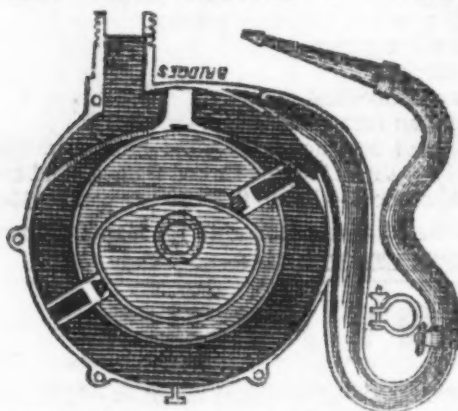
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and most unsightly skin, is truly remarkable; and while it possesses the quality of *preventing* the formation of wrinkles, it has also the power of *removing* them when formed! It is invaluable in the dressing-room of the adult, and equally so in the *nursery*—and no mother who values the health and comfort of her infant, should use any other compound in its ablutions than GOURAUD'S Italian Medicated Soap.

Its softening and soothing qualities especially adapt it for shaving—and gentlemen who are afflicted with stubborn beards and tender skins, will find in this delicious Soap a complete remedy for both these evils.

We might go on amplifying the merits of the Italian Medicated Soap, but we think sufficient has been said to convince any one not wilfully blind.

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Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

highly charged with "Ammonia," which, from experiments made by scrupulous experimenters, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

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It also contains, from time to time, views of cities, public buildings, scenery, curiosities, flowers, agriculture, natural history, portraits of distinguished individuals, etc., etc., to which is added each month a page of wit and humor, from "Democritus, Jr.," the Laughing Philosopher, with his comical "picters."

Although it is our object to give the magazine a practical and instructive character, rather than a light, imaginative, and sentimental, yet we intend that it shall always wear a smile that will make it attractive to all. Its articles are mostly original, and from the ablest pens of the country; while the editorial talent bestowed upon it is unsurpassed by that of any publication in America.

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THE UNITED STATES JOURNAL is one of the largest, and universally acknowledged to be the cheapest newspaper in the world. It is published monthly, each number containing *fifty-six spacious columns* of the most valuable and interesting reading matter, or 672 columns during the year; an amount sufficient to fill three large octavo volumes of over four hundred pages each. As a very interesting feature, there is now being published in the Journal a series of beautifully engraved *portraits of distinguished individuals*, accompanied with well-written biographical sketches. These will, two of them, appear each month, and be continued through several years. The Journal has been published six years, and has reached the triumphant circulation of over one hundred thousand copies, and we are determined immediately to increase that number to one hundred and fifty thousand.

We have, during the last two years, presented to the subscribers of the Journal two series of splendid gifts of over \$1000 each, besides over \$5000 worth of valuable books, to those sending us clubs.

We now offer the third series of gifts, amounting to over \$3000, which will be presented to the subscribers of the Journal as soon as the circulation reaches 150,000.

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10 Park Place, New York, October, 1855.

Putnam's Monthly may be obtained of Booksellers, News Agents, or of the Publishers.

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OPINIONS OF THE PRESS on the September Number.

PUTNAM'S MONTHLY.—Two numbers of this leading American Magazine have reached us at the same time, and brought upon us an *embarras de richesses*. The articles number some eighteen in each, and there is not one that we should be inclined to pass over. Indeed, "Putnam" has a peculiar attraction for us, as we see in it a reflection of the mind, manners, and intelligence of our transatlantic cousins. It carries us into a new country, and makes us acquainted with all its characteristics in an easy, unaffected manner. Politics are not neglected; but we do not detect faction, or even party, and we read under a persuasion that we are gathering the impartial opinion of the best minds in the United States.—*London (Eng.) Weekly Times*.

PUTNAM'S MAGAZINE for September is, without doubt, the most "solid" number ever issued of this admirable monthly. Its leading articles are of a character which would do credit to the English Reviews, while the Editorials and Notices are conceived in a most thoughtful and appreciative spirit.

The first article in the September number is a finely-written critique, original and effective. Such papers reflect honor upon our literature, and will do good.—*Sandusky Register*.

PUTNAM'S maintains its position as the best magazine in the world, from month to month.—*N. O. Picayune*.

PUTNAM.—Each number of this excellent magazine may well stand on record as unquestionably the result of the best effort which could be made in the endeavor to draw forth the literary capabilities of the country. The miscellany is exercising a more beneficial influence upon our literary culture than all the other periodicals in the country put together. It is the vehicle which every literary man is ambitious of reaching, and the most accomplished would gather up their best strength for an occasion of appearing in it. The editorial portion is looked for now with more interest and respect than any vehicle of æsthetic opinion we have. The notes on architecture, on books and engravings, form the most readable pages on those subjects in any of our periodicals.—*N. Y. Express*.

PUTNAM'S is unusually strong this month: it has exhibited signs of gradual but decided improvement since it passed into the hands of its present publisher. The reviews of books are impartial and well executed as usual.—*N. Y. Daily Times*.

PUTNAM is growing every month stronger, healthier, more to the purpose. It has some fine brains at work for it, and really begins to give the country some genuine criticism on literature and art.

Its opening review of the poetry of Owen Meredith (Bulwer's son) and Matthew Arnold brings back the sensations with which we used to devour the criticisms of Blackwood in its great days. It gives us ideas—it teaches us something—and, better and dearer than all, it gives us something to quarrel with!

The brief notices of new books in Putnam are independent, condensed, to the purpose. They generally touch the core of the matter, and show that the books have been read before being noticed. Of how few critical publications can we say as much!—*Phil. Morn. Times*.

We have already given several extracts from this very able periodical, and we are glad to say again, that; while on matters of general literature we do not pretend to draw it within our criticisms, in matters of religion, so far as it discusses them, its influence is sound and healthy.—*Phil. Episcopal Review*.

PUTNAM'S MONTHLY MAGAZINE.—This sterling periodical, for September, is at hand, brimful of miscellany at once entertaining and instructive. Putnam's Monthly is the only Magazine in this country—almost in the world—to which can be ascribed the credit of being logical without being dull; of conveying wholesome and valuable instruction to the mind, while at the same time it leaves pleasant impressions upon the brain. Its strides to popular favor have been no less certain than rapid, and now, in its sixth volume, it stands foremost in the ranks of periodical publications. Its table of contents for September, presents the same instructive and diverting *melange* of history, poetry, criticism, reviews, tales, and editorial comments as usual.—*Troy Whig*.

PUTNAM'S MONTHLY.—The growing excellence of this American magazine, is among the praise-deserving enterprises of the day. With editorial talent among the best in the world, with contributions from the richest minds on our continent, and judicious management on the part of its publishers, they are adding largely to the reputation of our national literature, and giving it a power and influence at once unattained by any similar publication.—*Highland Eagle*.

New Principle! New Remedy! No Poison!

RHODES' FEVER AND AGUE CURE,

OR ANTIDOTE TO MALARIA;

FOR THE PREVENTION AND CURE OF

Fever and Ague, or Chill Fever; Dumb Ague, and other Intermittent and Remittent Fevers; also of Bilious Fevers, accompanied by Typhoid Symptoms; Typhoid Fever, Yellow Fever, Ship and Jail Fever, General Debility, Night Sweats, and all other forms of disease which have a common origin in

MALARIA OR MIASMA.

These diseases are common to many localities of the United States; but wherever they prevail, North, South, East, or West, they all equally spring from the same miasmatic cause. The great variety of symptoms and forms of disease is owing principally to difference in age, sex, constitution, and habits of the sufferers; but as the cause is the same, they will all equally yield to a remedy that is competent to overcome or remove that cause.

By the laws of Nature every principle has its opposite, and for every disease, or cause of disease, there is a re-agent, or, in other words, a specific remedy. All Malaria, whether arising from marshes, stagnant water, decomposition of animal and vegetable matter, or even newly-cleared lands, is the same in character and effect; is a poison floating in the atmosphere, causing disease to all who breathe it. In accordance with those unalterable laws governing the unerring affinity subsisting between opposites, there is in the preparation before us, offered to the public,

THE NATURAL ANTIDOTE TO MALARIA,

which neutralizes the poison whenever it comes in contact with it, even in the open air, and when taken internally completely purifies the system affected by it of its baneful influence, and thus restores and preserves health.

The remedy is believed to be entirely new, and unknown to any but the proprietor, who distinctly claims the following extraordinary results from its use:

It will instantly check the ague in persons who have suffered for any length of time, from ONE DAY TO TWENTY YEARS, and by continuing its use, according to the directions, a radical cure will be effected; the patient continuing free from the complaint forever, unless subsequent exposure to malaria should make its use again necessary.

In its operation upon the poison in the system, it will immediately relieve all the distressing symptoms of bilious or ague diseases, and when the disease is cured, it will entirely prevent the accession of

GENERAL DEBILITY AND NIGHT SWEATS, which to often follow the administration of other medicines. The patient at once begins to recover appetite and strength, and continues to improve until restored to perfect health.

By its use Fever and ague may be banished from every family and class in the community; farmers, mechanics, and all laboring people may be using this article as a

PREVENTIVE,

and pursue their respective avocations in perfect safety from ague or bilious attacks during the sickly season, which is often to them the most valuable part of the year.

Since the introduction of the CURE in every part of the United States, its success has been so complete and unvarying as to have fully proved these assertions in favor of its extraordinary merit.

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On this account ague sufferers should be particularly careful about using any secret Fever and Ague reme-

dies, notwithstanding the makers of them uniformly assert they may be taken with perfect safety, even when it is notoriously well known that their potency depends solely upon destructive poison.

Now as a proof that the Remedy is not only valuable on account of its power to cure diseases, but that it is also

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"JAMES R. CHILTON, M. D., Chemist."

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The entire absence of any baneful ingredient makes this Remedy, not more valuable as a Cure, than it is as a preventive.

No class of disease is so easily managed as the one under consideration, if the medicine be taken in advance. This is owing to the diseases being produced by one and the same cause, and therefore all, both residents and travelers, should protect themselves by the timely use of this preventive, and not wait for the poison already lurking in their veins to develop itself in a violent attack. Take the Cure as a preventive, and so destroy the poison before it does harm.

Full directions and advice as to Diet and Habits of life prepared by a distinguished Physician long resident in a Bilious climate now accompany each bottle.

It will often be found necessary to precede this medicine by a mild cathartic or antibilious purgative. The very best thing for general use is a moderate dose of Castor Oil, the object of which is to cleanse the stomach and free the biliary passages. Remember that where this is necessary, or there is costiveness, it **MUST BE TAKEN**, or the operation of the antidote will be seriously obstructed.

ONLY CAUTION.—In certain specified cases, pour the contents of one or more bottles of the Cure, into shallow vessels (dining plates), and place them in sleeping rooms; for the vapor rising from the medicine, and also the air wafted across, or circulated over the dregs of it, after the liquid is evaporated, will counteract and destroy, to a degree commensurate with its exposure, the miasmata or poison contained in the apartment. This mode of exhibiting Cure should likewise be resorted to when very young infants are exposed to malarious situations.

The bottles in which this medicine is put up have the words "RHODES' FEVER AND AGUE CURE" blown in the glass, and on the outside wrapper is the name of the medicine (the copyright of which is secured), and the signature of the proprietor. These precautions are adopted to prevent counterfeits and imitations.

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But the mind requires a wider range—it has faculties which delight in the humorous and lively, the imaginative and poetical. These faculties also must have their appropriate food, else they become enfeebled, and, as a consequence, the intellect becomes narrow and one-sided, and is not able to take an enlarged and generous view of human nature and its destiny. To satisfy these heaven-implanted cravings of our mental being, we devote a fair proportion of the Post to FICTION, POETRY and HUMOR.

Among our contributors in the first two of the above Departments, are several of the most gifted writers in the land. We also draw freely for Fiction and Poetry upon the best periodicals in this country and Great Britain. We design commencing a New Story by Mrs. SOUTHWORTH, author of "The Deserted Wife," "Miriam," &c., in our first paper of January next.

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In another column is an advertisement of the Saturday Evening Post. Our readers may rely upon it, that Deacon and Peterson will be as good as their word. So far as we can judge by years of observation these publishers do rather more than they promise; and their paper is edited with very marked ability.—It is singularly free from silly sentimentalism and bluster, but is of a healthy tone on all subjects, always moderate in language, but always mildly advocating the right. We find it one of the most generally attractive papers in our exchange.—*Saturday Visitor, Pittsburg, Pa.*

We have heretofore spoken in high terms of the merits of the Post, as one of the best papers on our exchange list, and we regard it as one of the best literary papers to be found anywhere. Its editorials are written with ability, and take a liberal, independent and comprehensive view of men and things.—*Star and Advocate, Wrightsville, Pa.*

It is a paper of the largest size, and is edited with ability. It is highly spoken of by its readers, some of whom have clung to it for the last quarter of a century. It is too well and favorably known to need lengthy commendation. It tells its own story each week, and if you send for it once you will be very sure to do so again.—*Valley Times, Cedar Rapids, Iowa.*

It is deservedly one of the most popular public journals in the United States, combining as it does, in

a literary point of view, all the interest of the best magazines, with a vast amount of general intelligence.—*Republican, Litchfield, Ct.*

It is emphatically one of the very best literary newspapers in the whole country, and deserves the unparalleled success with which it has met under its present enlightened and liberal proprietorship. The greater its circulation in this State, the less, probably is our gain pecuniarily; yet we must pronounce it a most excellent journal, and worthy of the patronage of everybody. The contributors to the Post are among the finest writers in America, and the editor's articles are always characterized by truth and taste.—*Jersey Blue, Camden, N. J.*

We regard it as the best of the Philadelphia Literary papers. Its editorials are written with ability, and take a comprehensive view of whatever is discussed.—*Echo, Johnstown, Pa.*

The long period during which this sterling paper has been established, and its recent immense circulation, (between 80,000 and 90,000,) are ample guarantees to all who desire an excellent paper, that they will get the worth of their money by subscribing for the Post.—*Clarion, Lockhart, Texas.*

This is one of the best family papers upon our exchange list. Its original and well-selected matter is of the first order.—*North-Western Democrat, Minneapolis, Min. Ter.*

The editorial department is conducted with ability and skill, and the news department, for a weekly paper, is exceedingly full and complete. All things considered, the Post is not excelled, for family reading, by any paper that we know of.—*Gazette, Fulton, N. Y.*

TO EDITORS—Editors who give the above one insertion, or condense the material portions of it, (including our terms,) for their editorial columns, shall be entitled to an exchange, by sending us a marked copy of the paper containing the advertisement or notice.

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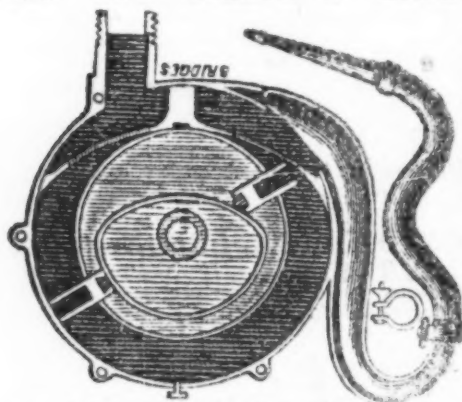
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Sept. 18-1y.

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No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

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CARY & BRAINERD.

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Nov., 1855

AMOS ATKINSON.

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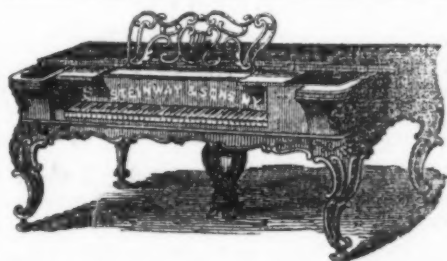
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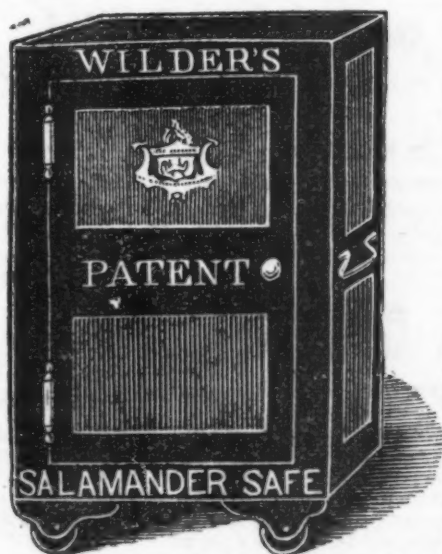
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AND

Journal of Rural Art and Rural Taste.

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EDITED BY J. JAY SMITH, EDITOR OF THE NORTH AMERICAN SYLVA.

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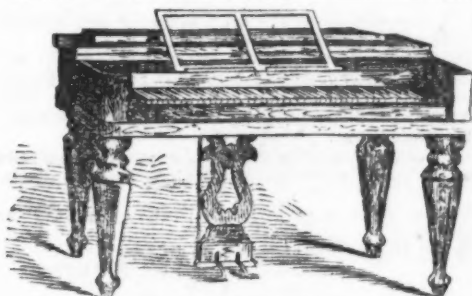
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1856.

VOL. 7.

THE HOME MAGAZINE.

EDITED BY T. S. ARTHUR.

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A New Story by Mrs. Alice B. Neal,

will be commenced in the January number.

A New Story by T. S. Arthur,

will succeed this.—To be followed by

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A series of Original Stories and Sketches, by the Editor, illustrative of life and character, will also be among the attractions of the coming volumes.

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RHODES' FEVER AND AGUE CURE,

OR, ANTIDOTE TO MALARIA,

EQUALLY CERTAIN AS A

PREVENTIVE OR CURE.

NO POISON.—PROOFS:

Had the Ague for Twelve Years!!!

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Having been informed of the illness of a poor, but worthy woman, who has not been free from Fever and Ague a month at a time for the last twelve years, I supplied her gratuitously with Rhodes' Fever and Ague Cure. She took in all four bottles, which completely restored her to health and strength, and as four months have now elapsed, there is no reason to doubt the permanency of the cure. I am also aware of many other cases in which it has been used, and have never known it to fail.

C. A. P. MASON, Apothecary.

Seventy Bottles Perform Seventy Cures!

CONSTANTINE, MICH., Sept. 24, 1855.

MR. JAMES A. RHODES,—Dear Sir: I have just sent an order to Ames and Halliday for another half gross of your Fever and Ague Cure. It has sold like HOT CAKES, and I have only two bottles on hand. One reason it has sold, is, because when I have heard of a case of Ague or Chill Fever, I have sent a bottle and told them to try it, and if it did not help them they were not obliged to pay for it, and they were all satisfied. I had one case of Chill Fever where it ran four days, but the man came to see me on the sixth day, well satisfied.

Truly yours, JOHN P. GLADDING.

Twenty-four Bottles Perform Twenty-four Cures!

MOLINE, ILL., Sept. 24, 1855.

MR. JAMES A. RHODES,—Dear Sir: The box of "Ague Cure" you sent us has all been sold, and created a large demand for more; to meet which we have ordered from your general agent at Chicago, J. D. Yerrington. Its sale will only be equaled by the number of Fever and Ague cases. Hoping these cases may be few, yet have a bottle of the Cure for every case, we remain respectfully yours, etc.,

RICHARDS & ALLEN.

Nineteen Bottles Perform Nineteen Cures!

Letter from a Postmaster.

MAXWELL, Delaware Co., OHIO, Aug. 19, 1855.

MR. J. A. RHODES,—Dear Sir: Your medicine has met with the most favorable success in this neighborhood. I have about five bottles left. I gave it to them at first, "if no cure no pay," although I was not authorized by you to do so, but I took the responsibility on myself. But not a bottle has come back; and as I am almost out of the article, I wish you would forward me one gross of the bottles, if you see proper to do so, and I will be punctual in payment. I inclose fifteen dollars on the medicine I have received, for which please send me a receipt. Ship the Cure to me as soon as you can; there never has been as much Chills and Fever since I lived in the State, as at present.

Yours, etc., RICHARD MARTIN, P. M.

Twenty-one Bottles Perform Twenty-one Cures!

PINE RUN, MICH., July 21, 1855.

DR. J. A. RHODES,—Dear Sir: Your Cure for the Fever and Ague has thus far performed a quick and permanent cure. Some who have been troubled with the distressing disease have been ENTIRELY CURED by using only ONE bottle of the CURE. Please send us immediately four dozen, as we have but three bottles remaining. Truly yours,

LATHROP & McLEAN.

Forty-three Bottles Perform Forty-three Cures!

DARLINGTON, IND., Oct. 20, 1855.

MR. JAMES A. RHODES,—Dear Sir: The four dozen of your Ague Cure were received about three weeks since, and we have but five bottles remaining. NOT ONE SINGLE CASE HAS IT FAILED IN CURING, and we shall sell the rest before we can receive a new supply. We should be glad if you would order four dozen more sent to us immediately, and remain, Yours truly,

KNOX & ENDICOTT, Druggists.

Cure of Panama Fever.

PROVIDENCE, Sept. 22, 1855.

MR. JAMES A. RHODES,—Having been entirely cured by your remedy, I take pleasure in assuring you of the benefit it has been to me. I was first attacked by chills and fever on the Isthmus of Panama, several months since, and, in spite of the different remedies and treatment I adopted, my health grew worse until I commenced the use of your Fever and Ague Cure. Since that time I have not had a single chill, and am now in the enjoyment of good health. Wishing your medicine the success that it merits, I remain, truly yours,

THOMAS G. ANDREWS.

I. O. O. F.

In another column of to-day's paper will be found an advertisement for "RHODES' FEVER AND AGUE CURE." We are not in the habit of puffing medicines, but desire to say, for the benefit of the afflicted, that Wm. N. Rowe, Merchant, Sharpsburg, who has it for sale, informs us that he has sold several dozen bottles, and in every case it has effected a cure. This proves the medicine to be good, and we take pleasure in bringing it before the notice of the public.—*Odd Fellow, Loonsboro, Md. Sept. 4.*

Evidence from a Clergyman.

PLYMOUTH, Richland Co., OHIO, Sept. 25, 1855.

MR. J. A. RHODES,—Dear Sir: I cheerfully testify to the value of your Antidote to Malaria. One young lady in the family of a clergyman here has been taking an "AGUE BALSAM" for some time without any permanent benefit; a few days since she got a bottle of the cure, and has not had a chill since. A young man also used the same Balsam some time without relief until he got a bottle of your CURE. So far it works like a charm.

Yours truly, Rev. A. C. DUBOIS.

Evidence from a Physician.

MONTICELLO, IND., Aug. 27, 1855.

J. A. RHODES,—Dear Sir: I have been in the practice of medicine here for about three years, and can conscientiously recommend your medicine, having used it myself and prescribed it in a number of instances with perfect success. Respectfully yours,

W. G. SPENCER.

Twenty-five Negroes

cured on one plantation in North Carolina by the use of Rhodes' Fever and Ague Cure. The proprietor thought it more economical to buy a couple of dozen at once than to let his hands lay idle with the ague, or "doctor" them with poisons. Others will find it so as soon as they try it.

Proof of Innocence!

NEW YORK, June 11, 1855.

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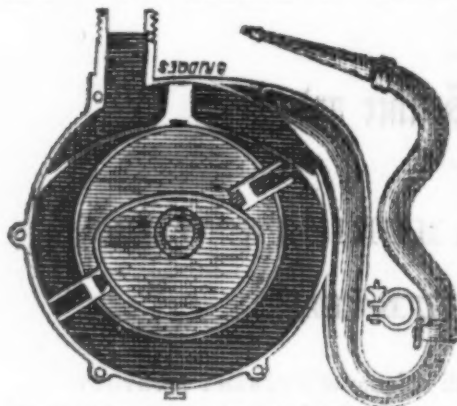
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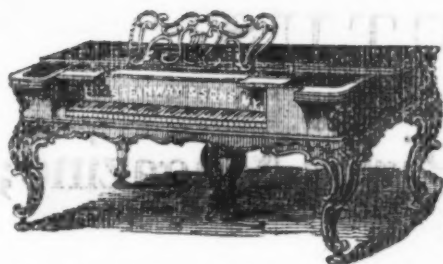
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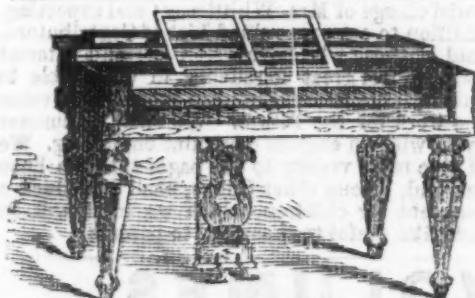
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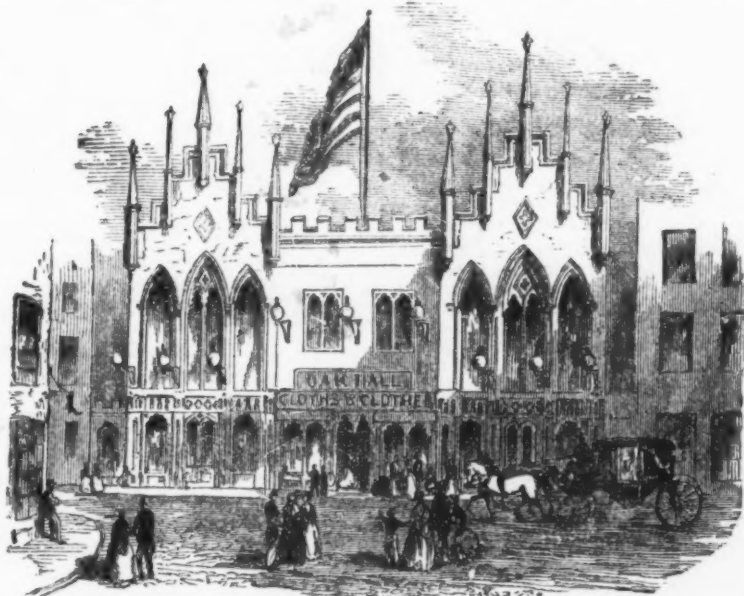
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32. ORDER.—Method, system, going by rule, keeping things.
33. CALCULATION.—Mental arithmetic, reckoning, [in place].
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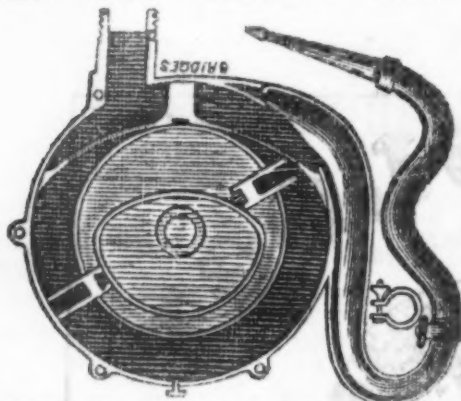
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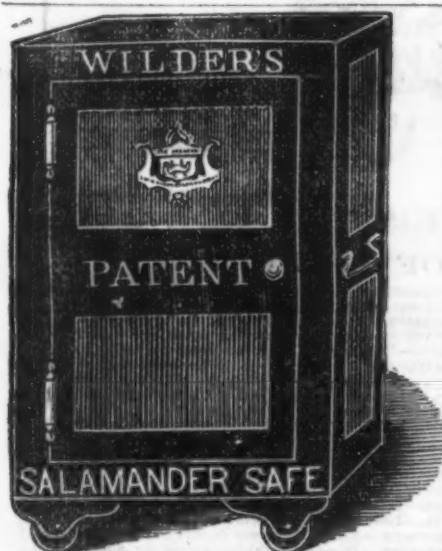
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Nov., 1855

AMOS ATKINSON.

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CAN CONSUMPTION BE CURED? is still the inquiry of the sufferer, and the poor mortal upon whom this disease has set its fangs, like a drowning man, still catches at every thing that promises relief; and it is well that it is so. Were it otherwise, any great discovery by which disease can be cured would be of no benefit, because the world had come to the conclusion that there was no use in trying.

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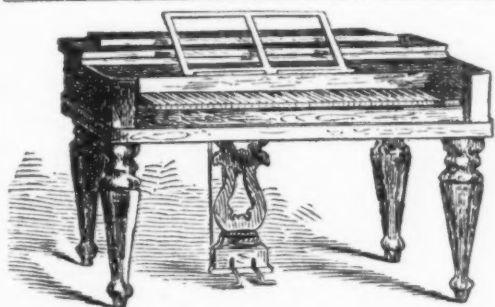
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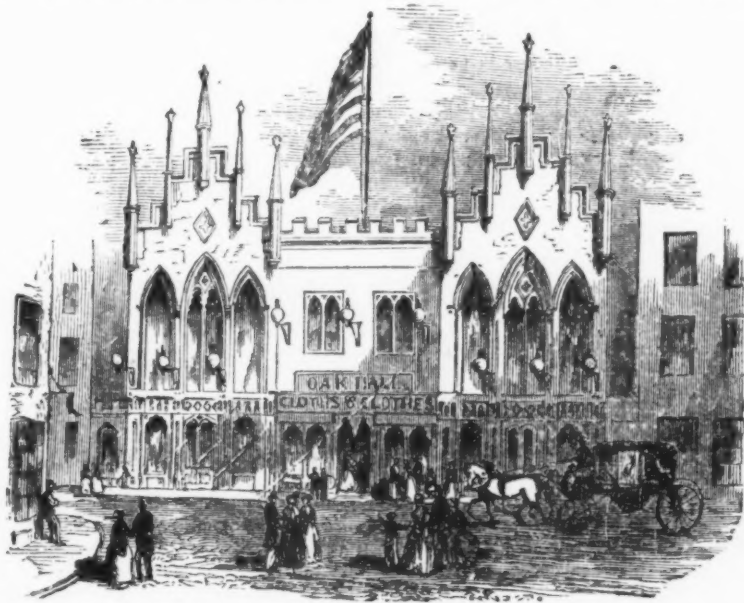
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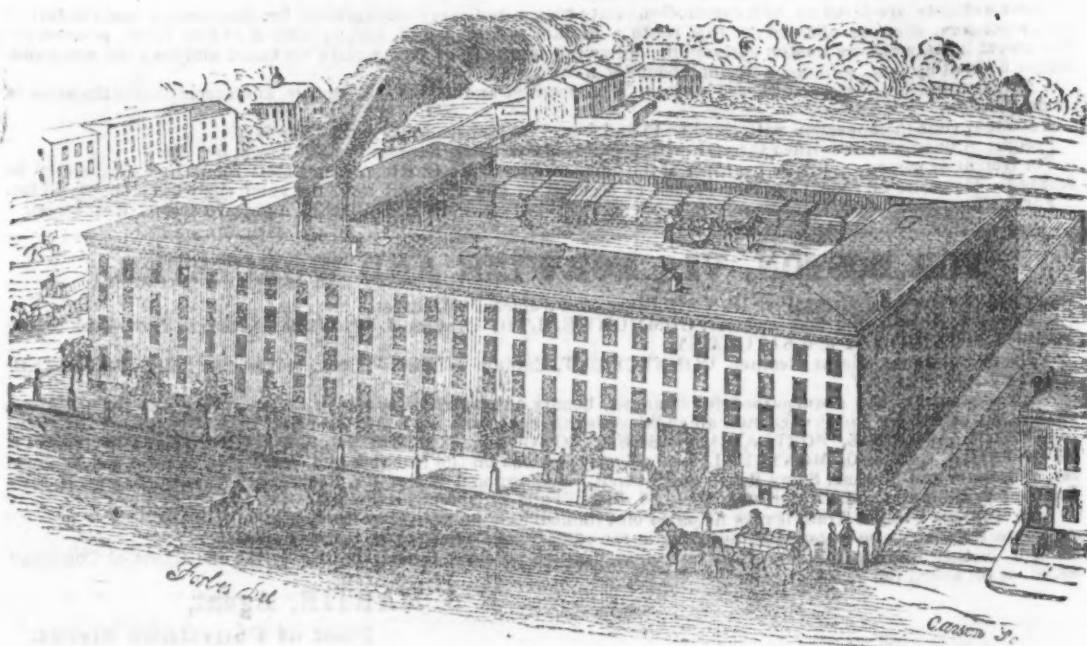
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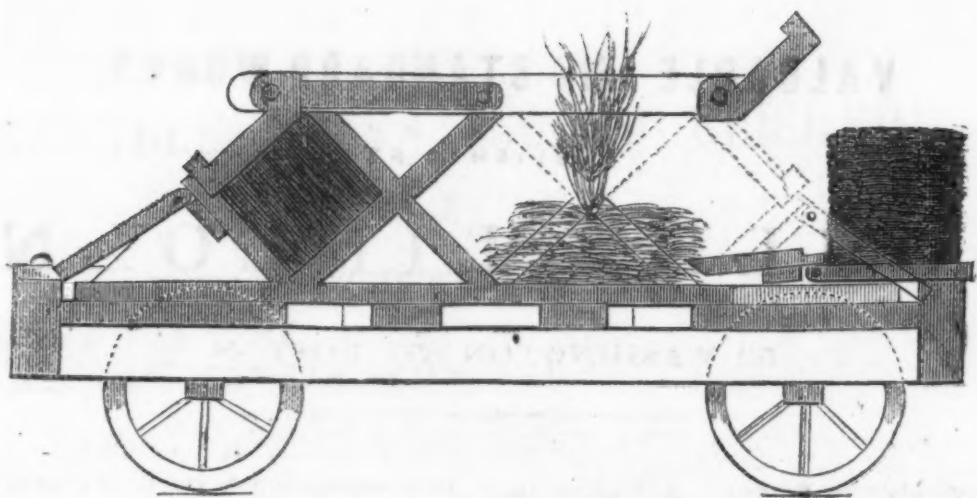
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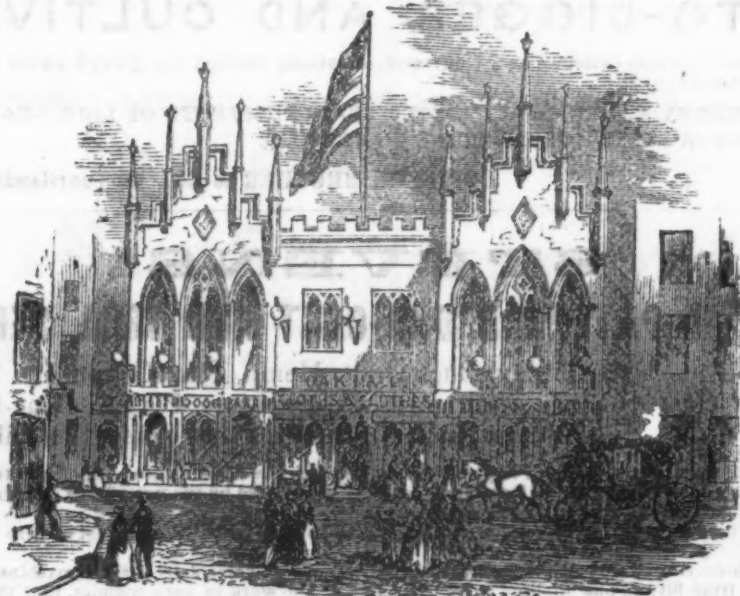
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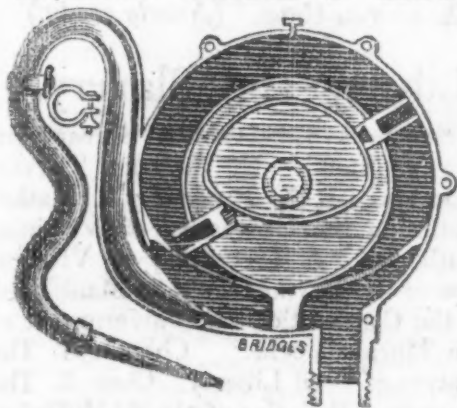
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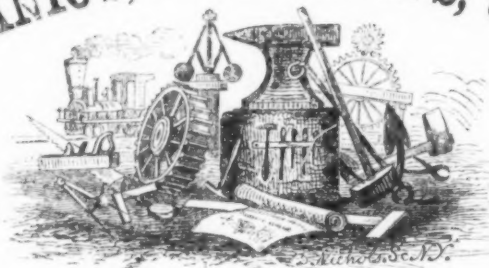
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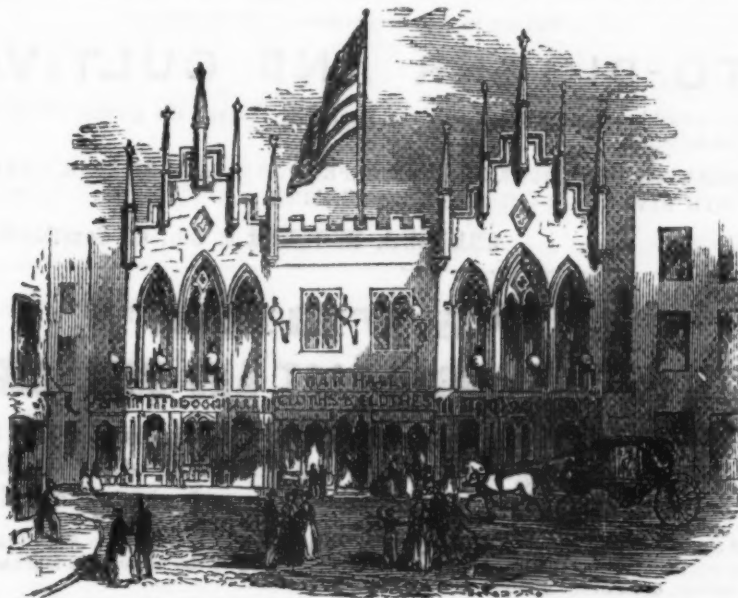
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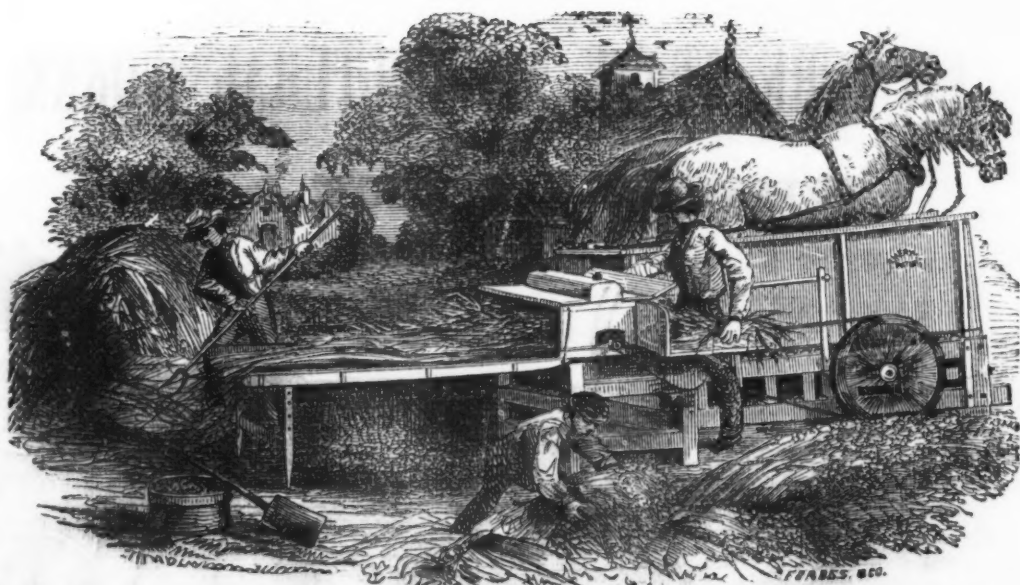
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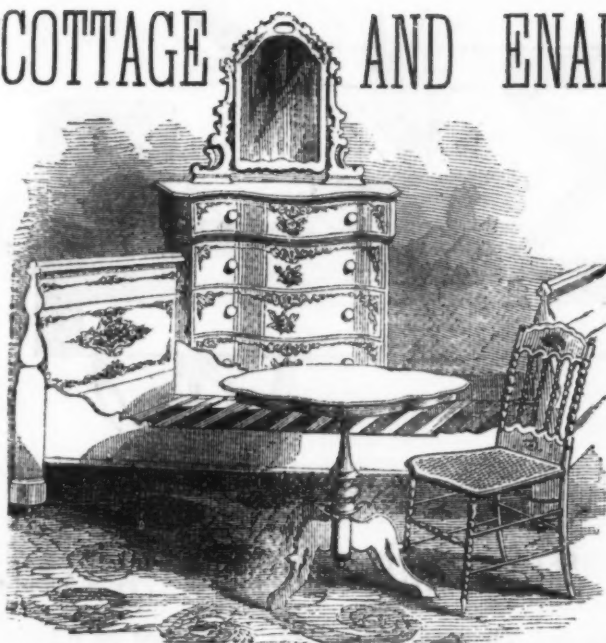
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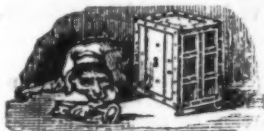
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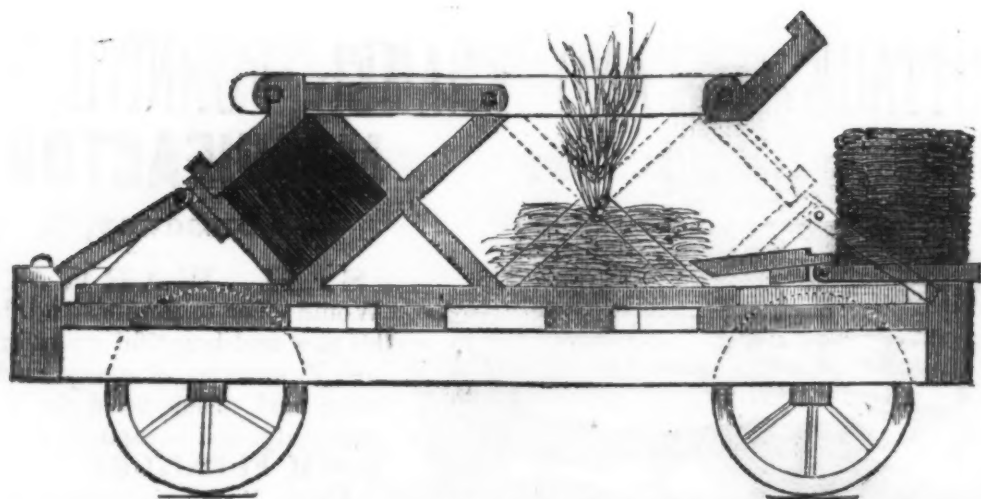
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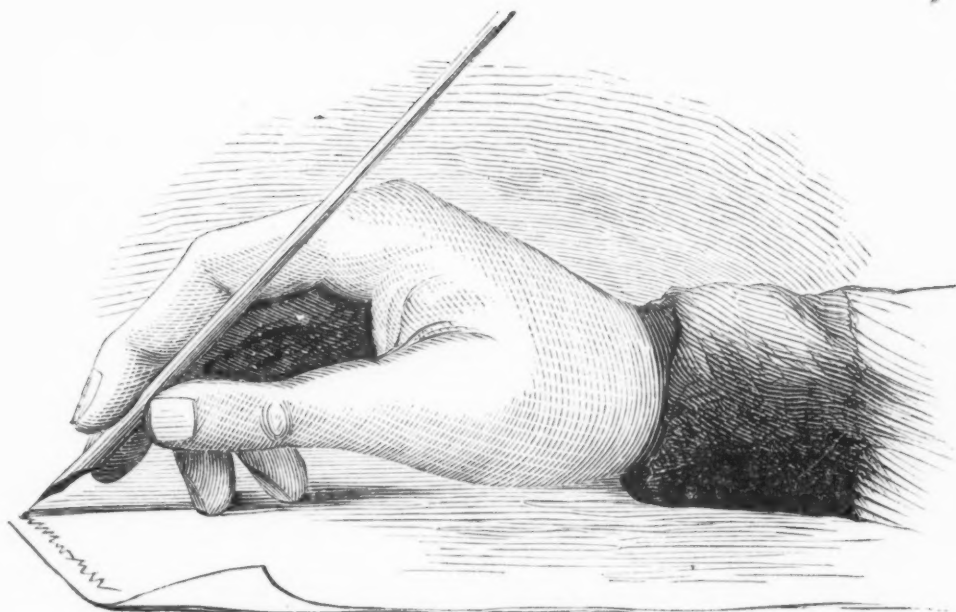
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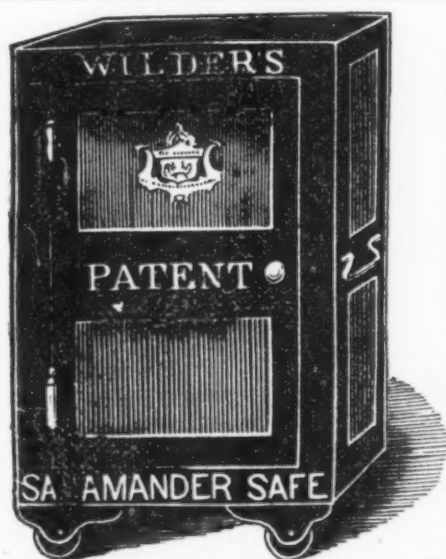
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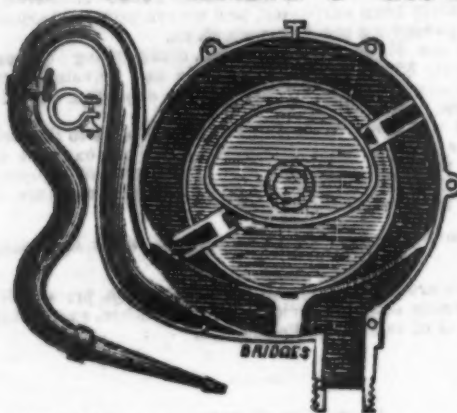
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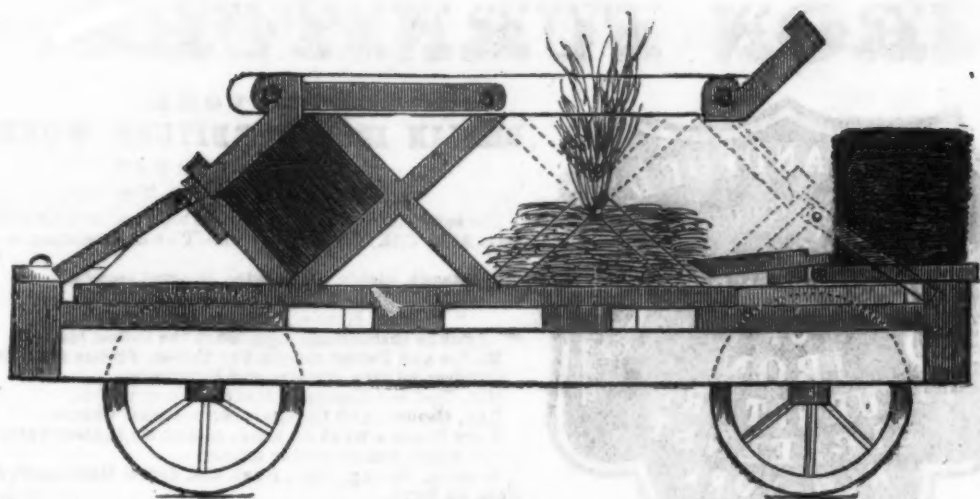
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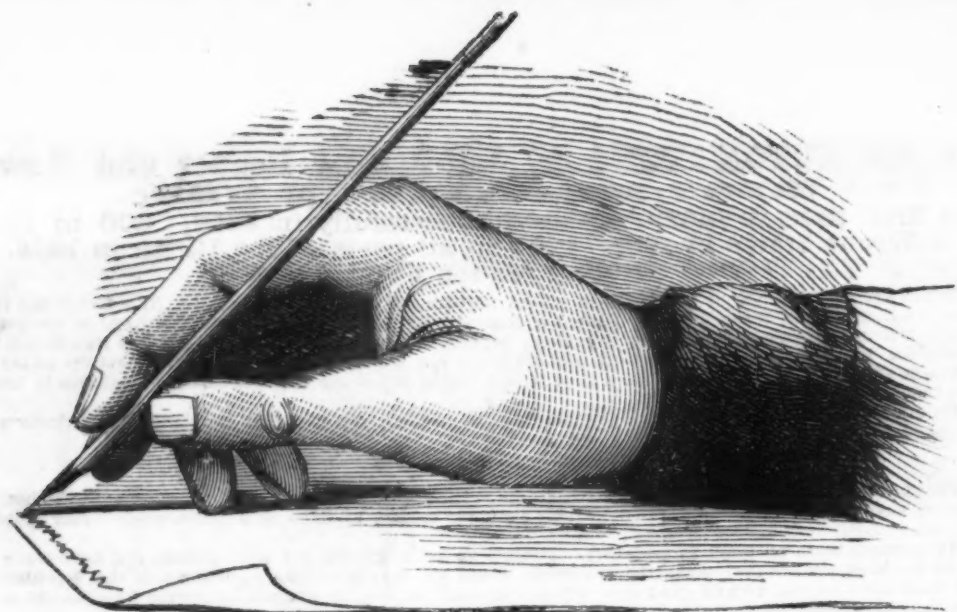
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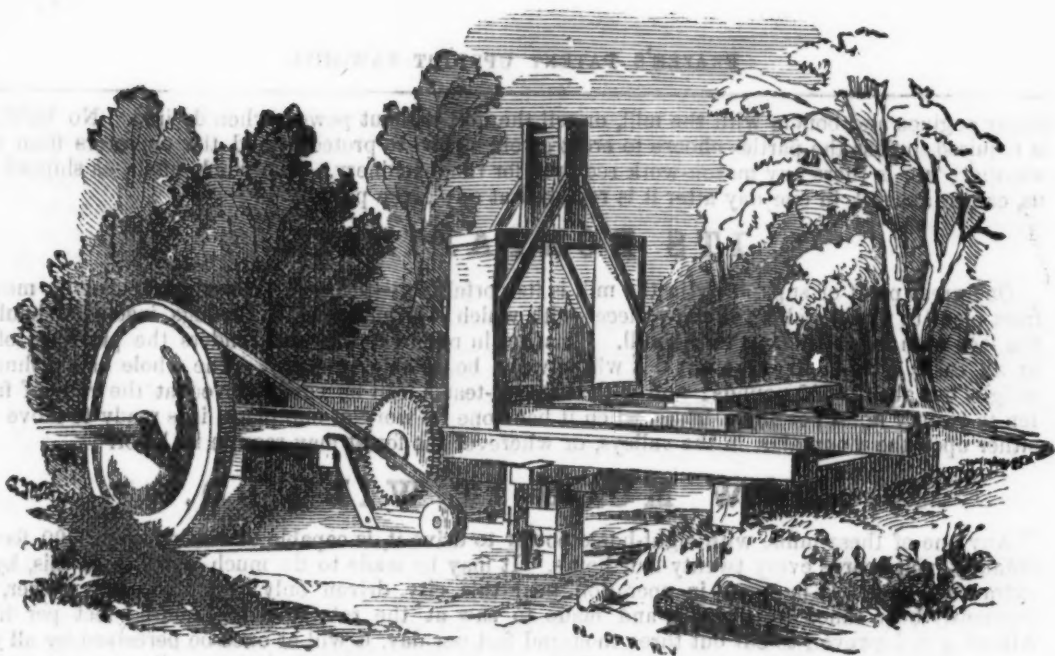
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FRAZEE'S PATENT UPRIGHT SAW-MILL.

THIS MILL was invented by Mr. BENJAMIN FRAZEE, an experienced mechanic, for which he received letters patent, dated October 18, 1853; since which time, nearly one hundred of them have been put in operation in different parts of the United States, and their value and efficiency thoroughly tested by practical experiment. It has been examined by hundreds of the best mechanics and machinists in the country, and it has been admitted by all that, for cheapness, durability, and efficiency, it is far superior to anything of the kind ever before produced, and that it must eventually take the place of nearly all the mills now in use. We purpose in this paper to give a plain statement of its construction, its advantages, prices, and all particulars which those interested would wish to know before purchasing.

ITS CONSTRUCTION.

It is composed of eight pieces of timber, from five to eight feet long; four pieces of plank, from four to six feet long; and about fifteen hundred pounds of iron; besides two long bed-pieces, a carriage, some small wooden fixtures, pulleys, etc. The common up-and-down saw, six and one-half or seven feet long, is used, without sash-gate or muley, and will saw timber of the largest or smallest size. It is so very simple in its construction that it has but few bearings, and consequently but little friction, and will therefore require much less power to drive it than the more complicated mills now in general use. As much of the cumbrous machinery of other mills, such as large heavy frames, sash-gates, etc., is dispensed with in this, it is much less liable to get out of order; while its simplicity enables any one of ordinary mechanical ability to repair or build it. The amount of repairs required with fair usage is of insignificant import. Another advantage of this mill is, that its work is superior in smoothness and straightness, and that it cuts away less of the timber than most other mills.

OUR EIGHT-HORSE POWER.

The motive power usually sold with it is a simply-constructed, yet efficient and durable, portable steam-engine of eight-horse power, with cylinder from seven to eight inches in diameter, and fifteen-inch stroke, together with locomotive boiler, about twelve feet long, with thirty-two 2-inch tubes, six feet long. The front, or fire-box, is three and one-half feet in diameter, and four feet long. The front and tubes are all heating surface. The engine and boiler together weigh about 4000 pounds. They are constructed especially for this mill, and are of requisite power to drive it with sufficient rapidity to cut over 6000 feet of ordinary inch boards in every twenty-four hours. We supply

FRAZEE'S PATENT UPRIGHT SAW-MILL.

larger engines and boilers with the mill, or sell the mill without power, when desired. No building is required, unless the parties choose to erect a rough shed to protect it and the operators from the weather; nor is there any mason-work required for the machinery. The whole affair, as shipped by us, can be at work in one day after it is received at any given place.

ITS PORTABILITY.

One great point of superiority in the mill is its portability—the ease with which it can be moved from place to place—taking the few pieces with which it is composed, to the logs, instead of hauling the logs from long distances to the mill. This fact in regard to the mill renders the purchase of it, in all cases, a safe investment, as it will always be salable property. The whole establishment weighs but about 6500 pounds; and with three ox-teams, can be easily moved at the rate of from ten to twenty miles per day. Thus, when it has done its work at one place, it is ready to move on, either upon the mountains, in the valleys, or wherever the forest may require its labor.

HOW MUCH IT WILL DO.

Any one of these mills, with eight-horse power to drive it, is capable of cutting over 6000 feet of ordinary inch boards every twenty-four hours. It may be made to do much more than this, by an extraneous effort; in fact, one in operation near this city, driven only by a five-horse power, has frequently been timed by a watch, and made to saw at the rate of nine hundred feet per hour. Allowing it, however, to cut but three thousand feet per day, it will at once be perceived by all who are experienced in the business, that in efficiency it has no equal. As it is usually run with steam-power, the delays which other mills are often subjected to, waiting for water, or having too much water, repairing dams, etc., are entirely avoided.

PRICES.

We furnish these mills, with bolts, screws, belting, forty-eight feet of segments for carriage, and everything all complete, excepting two long bed-pieces and the carriage, for

\$ 450.

The segments we furnish for carriage are sufficient to saw timber twenty-four feet long; but when it is desirable to saw timber more than that length, an extra charge will be made for extra length of segments. A draft, carefully explained and numbered, will be sent with each mill, so that the parts may be readily and accurately put together. We furnish the mill as above, with an eight-horse power engine and boiler, all new and complete, manufactured expressly for this mill, and sufficient to drive it with any rapidity, for

\$1250.

Those wishing for larger power, can have it at the following prices:

Mill, with ten-horse power,	\$1500
“ “ twelve-horse power,	1800
“ “ fifteen-horse power,	2000
“ “ twenty-horse power,	2500

The above are our lowest cash terms, (the right to use being in all cases included,) and we confidently believe that the universal verdict of the practical saw-mill men of the United States will be, that it is the cheapest mill in the world. There is hardly a county on this continent, where one of them, put in operation, will not more than pay for itself in less than two months. Some of those now in operation in the Western States are clearing over forty dollars per day over all expenses.

Those desiring to make a small investment, can find no enterprise that will bring larger and surer returns than this. Many enterprising men have gone into a new country, determined to settle near a saw-mill, so as to use up, or make a profitable disposition of, their timber; otherwise, in clearing the land, they would be obliged to burn and waste most of it. This will no longer be necessary. The forehanded pioneer may now take his saw-mill along with him, with as much propriety and economy as he has hitherto taken his axe and hand-saw. On arriving at his “claim,” he can set up his mill, get out the timber for his own residence, if need be; sell the balance to pay for his land, and even get back the cost of the mill beside; and, after all that, sell the mill for nearly or quite the original cost of it, to be moved to some other neighborhood, there to saw its way through another useful career; and so on, till its timbers are shivered, and its existence is ended. Nor is this all. A circular saw, for lath and other light sawing, can be attached, with very little extra expense; and some parties have added a small grist-mill, and the whole was worked without extra power.

FRAZEE'S PATENT UPRIGHT SAW-MILL.

To those who would wish to buy Rights, we would say, that this is one of the best patents that can be found. There are six thousand saw-mills built in the United States every year, and this patent will greatly increase the number; for thousands can now have a mill who could not when the cost of a steam mill was four or five times what we charge for this one.

The price of Rights ranges from five hundred to two thousand dollars per county, depending upon the amount of lumber and population.

For mills and machinery, the money must be received or deposited here in New-York before they are shipped. Purchasers can arrange with some banker in their neighborhood to make the necessary deposit here for them. Most of our orders for mills are now coming from places where some enterprising man had set one in operation, and tested it to the satisfaction of the lumbermen of the region.

A few months since, one of these mills was purchased by Mr. J. O. Taylor, of Freeport, Illinois; since which time, ten others have been sold to parties in that vicinity, who had seen Mr. Taylor's mill, all of which are now in successful operation.

The first day's operation of a mill sent to Lansing, Mich., brings us the following letter and order:

Lansing, Jan. 16th, 1856.

MESSRS. J. M. EMERSON & Co.:

GENTS:—Enclosed, you will find draft for \$1250 on Bank of Commonwealth, for which, I want you to send me a Mill, with eight-horse power, all complete, precisely like the one I purchased of you, and to send it immediately, as I have agreed to have it running by the 25th of February. My Mill is all correct, excepting that some of the castings were rough. This Mill is sold in consequence of having mine running, which, I am happy to say, works admirably. This day she gave her trial trip; and if she did not walk through the log, then I should not say so. There were some fifty persons to witness it. I shall, probably, order another next week. Send by the same Company as you sent the other, so that I can get it just as quick as possible. I expect to order as many as eight more Mills before the first of June.

Yours, truly,

JESSE S. BUTLER.

Another letter, from Spring Hill, Mo., says:

MESSRS. EMERSON & Co.:

Your Mill, sent to this place, started to-day, in presence of several hundred spectators. During the first five hours of its operation, it sawed over twelve hundred feet of hard oak inch boards. A large number of them will be wanted in this vicinity.

Yours,

JOHN OLDEN.

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MR. FRAZEE:

DEAR SIR:—We have now finished putting up the Portable Saw-Mill—have had it running for about two weeks; and I must praise it a little, as I, as well as the people in this neighborhood, am astonished at its performance. In a word, it runs to our complete satisfaction, and will do all that it was recommended to do. So far as fuel is concerned, the green slabs are sufficient to keep up steam; and now, since putting our exhaust-pipe on our smoke-stack, we can burn up all our dust—thereby saving still more of our fuel—at least, one-half. I shall be very happy to show the mill to all who desire to examine it.

Respectfully,

G. HOYT.

We might give many other similar facts and letters; but the above will answer all purposes.

Of all the parties to whom mills have been sold, not one has expressed dissatisfaction, or regretted making the purchase; but, from all sections where these mills have been tested, we are having calls for more.

Strangers visiting the city, are respectfully invited to call at our office, and we will direct them to one of these mills in operation in this city, which is now being visited by large numbers every day. We would suggest to those living at a distance, and who desire a personal examination, that they write to some friend in New-York to make the investigation for them. One of these mills may also be seen in operation at St. Louis, by calling upon Dr. A. G. BRAGG, of that place.

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"Modern spiritualism," of all modern religious delusions, has culminated most rapidly, spread most widely, and, we must confess, gained most notable adherents during the same period of time. Its leaders claim that it already numbers more than a million believers; it has organized itself, established presses for the publication of books, magazines, tracts, and newspapers; it boasts a special literature, interspersed with and fortified by all the ghostology of the past; it has called scientific men to investigate it, and learned and pious men to combat it; it has mounted the pulpit, entered the concert-room, tried its hand at the drama, and on every hand inspired, seriously or for "the fun of the thing," *circles*, in which the ghosts of the dead—from Adam's time to ours—have been made to revisit the earth, teaching of the life that is, and the life that is to come; or rather, pretending to reveal those things which God has wisely ordered that man shall not know, save by imagination, hope, and faith.

Mr. Ewer, editor of *The Pioneer*, San Francisco, Cal., and a gentleman of no little intellectual ability, being moved by a literary and fanciful—some may say mischievous—inspiration, sat down in his sanctum in San Francisco, and, very much after the manner of Edgar A. Poe, in some of his weird sketches, composed a most remarkable spiritual experience—startling and thrilling as a narrative far beyond any "real" experience that we have read or heard of in the history of "modern spiritualism." It is a marvellous story—none the less so for being a fiction—as the reader will find. Well, when Mr. Ewer had fully conjured this fanciful "spiritual" experience, entitled, "The Eventful Nights of August 20th and 21st," he published it in his magazine, *The Pioneer*. It was an adroit and plausible conception, and not difficult to be swallowed by any devout spiritualist. In due time a number of *The Pioneer*, containing the experience, reached Judge Edmonds through the mails, and he was greatly exercised thereby—so much so, that he copied Mr. Ewer's revelation in his (Edmonds's) magazine, *The Sacred Circle*, then published in New York, and wrote to Mr. Ewer, stating that he had thus copied, and adding that he (Edmonds) had had several interviews with the (defunct fictitious) hero of the narrative, "John F. Lane." Thereupon Mr. Ewer wrote to the New York Herald, giving an *exposé* of the manner in which Judge Edmonds had been duped by him (Ewer); or rather, showing that the Judge's pretended visions, like all the other pretensions of "modern spiritualism," were worthless of belief.

We have thought, not only on account of the strong evidence this case furnishes of the fallibility, fallacy, and falsehood of modern spiritualistic pretensions, but also for the exceedingly interesting, intrinsic worth of Mr. Ewer's "experience," that the matter entire would not be unattractive, nor without good influence, issued in a more permanent form.

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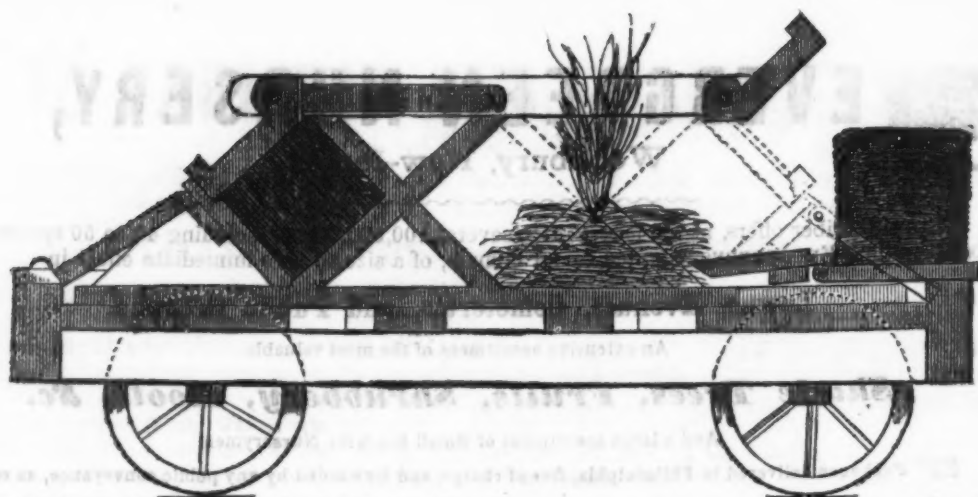
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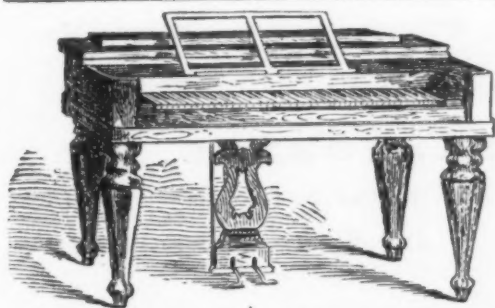
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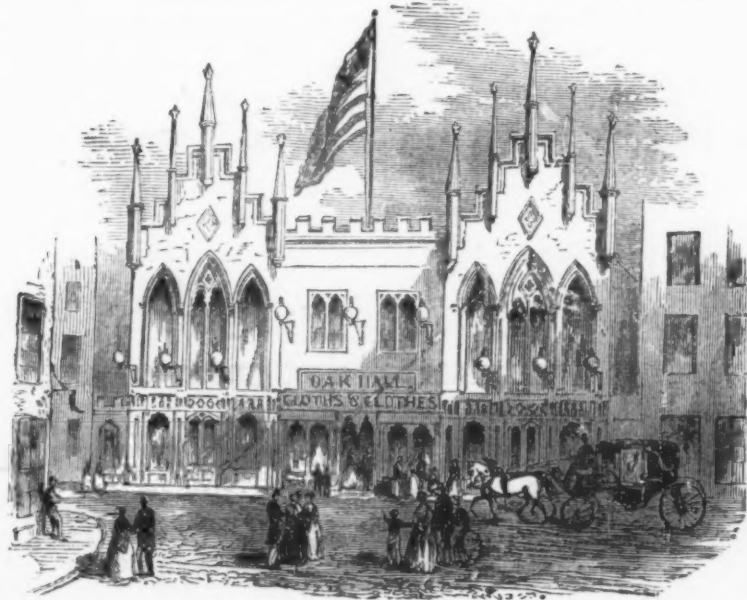
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